

ORIGINAL



SDMS DocID

2205177

**GROUNDWATER ABATEMENT ZONE REPORT
CHRIN BROTHERS SANITARY LANDFILL
WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY,
PENNSYLVANIA**

PREPARED FOR:

**CHRIN BROTHERS, INC.
EASTON, PENNSYLVANIA**

Prepared by:

**Civil & Environmental Consultants, Inc.
Export, Pennsylvania
CEC Project 230837**

September 30, 2003

Civil & Environmental Consultants, Inc.



Four Triangle Lane, Suite 200 • Export, Pennsylvania 15632-9255
Phone 724/327-5200 • Fax 724/327-5280 • Toll Free 800/899-3610 • E-mail export@cecinc.com

Chicago Cincinnati Columbus Indianapolis Nashville Pittsburgh St. Louis

Export

Toll Free 800/899-3610
E-mail export@cecinc.com

Chicago

Toll Free 877/963-6026
E-mail chicago@cecinc.com

Cincinnati

Toll Free 800/759-5614
E-mail cincinnati@cecinc.com

Columbus

Toll Free 888/598-6808
E-mail columbus@cecinc.com

Indianapolis

Toll Free 877/746-0749
E-mail indianapolis@cecinc.com

Nashville

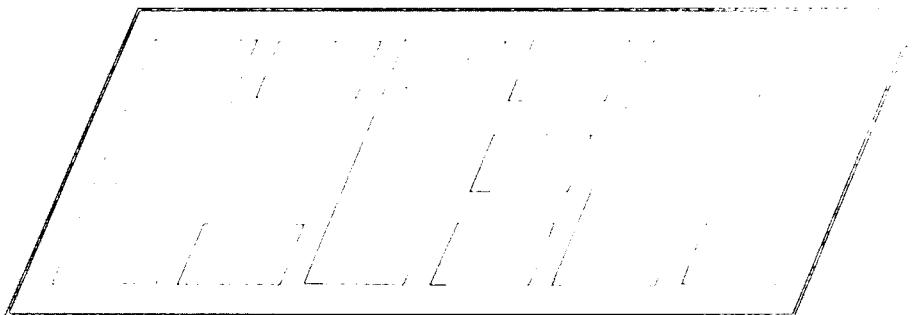
Toll Free 800/763-2326
E-mail nashville@cecinc.com

Pittsburgh

Toll Free 800/365-2324
E-mail info@cecinc.com

St. Louis

Toll Free 866/250-3679
E-mail stlouis@cecinc.com



ORIGINAL

**GROUNDWATER ABATEMENT ZONE REPORT
CHRIN BROTHERS SANITARY LANDFILL
WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY,
PENNSYLVANIA**

PREPARED FOR:

**CHRIN BROTHERS, INC.
EASTON, PENNSYLVANIA**

Prepared by:

**Civil & Environmental Consultants, Inc.
Export, Pennsylvania
CEC Project 230837**

September 30, 2003

September 30, 2003

ORIGINAL

Mr. Richard Watman (3HS22)
U.S. EPA Region III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

Dear Mr. Watman:

Subject: Groundwater Abatement Zone Report
Chrin Brothers Sanitary Landfill
Williams Township, Northampton County, Pennsylvania
CEC Project 230837

On behalf of Chrin Brothers, Inc. (Chrin), Civil & Environmental Consultants, Inc. (CEC) has performed an evaluation of groundwater level and water quality data collected between July 1998 and that most recently available at the subject facility. This evaluation has been conducted to determine the effectiveness of the pump and treat system for the Abatement Zone Area as requested by the United States Environmental Protection Agency (U.S. EPA) for completion of the Five Year Review.

In order to complete the evaluation presented herein, the following exercises were completed: 1) compilation of groundwater levels measured by Chrin personnel in monitoring wells; 2) construction of high and low water table condition potentiometric maps showing groundwater contours during periods of identified high and low groundwater elevations; 3) evaluation of the adequacy of the existing groundwater monitoring system in detecting off-site migration of contamination; and 4) evaluation of the groundwater abatement system in containing and recovering contaminated groundwater including an assessment of potential receptors.

DESCRIPTION OF GROUNDWATER ABATEMENT SYSTEM

The groundwater abatement system was designed to recover and treat on-site groundwater downgradient from Fill Areas 1, 2, and 3 and discharge the treated water to an unnamed tributary to the Lehigh River in accordance with Chrins NPDES permit. In general, groundwater in three recovery wells (DM-2, MW-9, and DM-11) is continuously extracted and pumped to an air stripper where volatile

Civil & Environmental Consultants, Inc.

Export Four Triangle Lane
Suite 200
Export, Pennsylvania 15632-9255
Phone 724/327-5200
Fax 724/327-5280
Toll Free 800/899-3610
E-mail export@cecinc.com

Pittsburgh	800/365-2324
Chicago	877/963-6026
Cincinnati	800/759-5614
Columbus	888/598-6808
Indianapolis	877/746-0749
Nashville	800/763-2326

Corporate Web Site <http://www.cecinc.com>



Mr. Richard Watman (3HS22)
Page 2
September 30, 2003

organic compounds are removed. The resulting effluent passes through continuous backwash filters (primarily for manganese removal) and a Lamella gravity settler/thickener (primarily for iron removal) prior to discharging to surface water.

Operation of the abatement system commenced on April 14, 1999 with the initiation of pumping from well DM-11. Pumping from DM-11 has been maintained at an average rate of 28 gallons per minute (63,788,430 gallons were extracted between April 1999 and July 2003). Pumping from wells DM-2 and MW-9 commenced on June 8, 1999 and has been maintained at an average combined rate of 43 gallons per minute (95,533,446 gallons were extracted between June 1999 and July 2003).

GROUNDWATER LEVEL EVALUATION

Based on the groundwater elevations measured and recorded by Chrin personnel and the hydrographs presented in Appendix A, groundwater potentiometric maps (refer to Figures 1 and 2) were generated using the measurements obtained during periods of low and high groundwater table conditions, respectively. These measurements were selected to show that during both seasonal high and low water table conditions groundwater flow beneath the site is generally to the north-northwest. Monitoring wells MW-2 and DM-4R effectively serve as upgradient monitoring wells for the Abatement Zone Area while the remaining wells serve as downgradient monitoring wells. Therefore, the existing groundwater monitoring system remains adequate for the facility.

A summary of water table elevations measured in each monitoring well between July 1998 and August 2003 is presented on Table 1. Hydrographs for each well are included in Appendix A. In general, the hydrographs show an overall decrease in groundwater elevation immediately following initiation of the pump and treat system in April 1999. As expected, this initial drawdown effect becomes less identifiable after the groundwater table stabilizes to the constant pumping rate and seasonal fluctuations continue to occur. In fact, seasonal fluctuations were generally greater in magnitude than the initial drawdown in most wells. Therefore, water level data were not sufficient for determining the drawdown effect and corresponding capture zone created by the pump and treat system. It should

Mr. Richard Watman (3HS22)
Page 3
September 30, 2003

ORIGINAL



be noted, however, that based on a review of Figures 1 and 2, groundwater contours have maintained comparable relationships throughout low and high water table conditions (indicating that the constant pumping rate maintains the same relative effect).

GROUNDWATER QUALITY AND RECEPTOR EVALUATION

The abatement zone of the landfill is currently under a U.S. EPA-approved monitoring program due to the historical presence of organic constituents at elevated concentrations in downgradient monitoring wells. Laboratory results from the abatement zone monitoring wells (beginning with the July 1994 sampling event) are summarized on Tables 2A through 2H. Trend charts for each constituent of interest in each abatement zone well, plotted with the corresponding clean-up standards (specified in the Abatement Plan, the U.S. EPA Record of Decision, and subsequent U.S. EPA Explanation of Significant Differences), are included in Appendix B.

Referring to the trend charts, it is apparent that several of the volatile organic compounds of interest have decreased in concentration in various downgradient abatement zone wells following the startup of the groundwater treatment system. These constituents are generally below the corresponding clean-up standard where detected and include benzene, vinyl chloride, 1,1-Dichloroethane, carbon tetrachloride, 1,2-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropane, and methylene chloride. Two volatile organic compounds, trichloroethene and tetrachloroethene, were also identified in several wells, but concentrations generally do not show the same decreasing trend. It should be noted that concentrations of trichloroethene and tetrachloroethene have generally ranged from nondetect to only slightly above their respective clean-up levels.

In order to further evaluate the protectiveness of the selected remedy, a preliminary evaluation of potential human receptors identified in the U.S. EPA Record of Decision (ROD) was also performed. Based on available information, groundwater flow is to the northwest, and ultimately discharges to the Lehigh River (Figure 3). The U.S. EPA ROD identified the communities of Glendon Boro and Lucy's Crossing as being hydrologically connected to the site. Therefore, an integral aspect of the selected remedy was designed to reduce or eliminate potential downgradient human



receptors in these communities. This was accomplished by providing a public water supply to the communities of Glendon Boro and Lucy's Crossing in 1988. CEC contacted representatives from these communities, as well as the Easton City Suburban Water Authority, to confirm that the public water supply systems have been maintained and there are no known potable groundwater supplies immediately downgradient of the site. Based on the available information, groundwater is not used as a potable supply downgradient from the site.

GROUNDWATER TREATMENT SYSTEM OPERATION AND MAINTENANCE

Routine maintenance has been conducted on the groundwater abatement treatment system since the April 14, 1999 start date. Daily maintenance records are maintained on file and are available upon request. Appendix C presents the total volume of groundwater pumped and treated on a daily basis by the pump and treat system.

Finally, laboratory results for both the influent and effluent lines of the groundwater treatment system are provided in Appendix D. Referring to the results, it is seen that all of the constituents of interest in the effluent sample meet the requirements of the NPDES permit discharge criteria.

CONCLUSIONS

Based on the evaluation of available water level and water quality data prior to and after the startup of the groundwater abatement system, it appears that the system is working effectively to remove contaminates from groundwater downgradient of Fill Areas 1, 2, and 3. Immediately following initiation of the pump and treat system in April 1999, groundwater elevations decreased in the targeted capture zone. Since that time, the magnitude of seasonal fluctuations in groundwater levels versus the drawdown created by the abatement system rendered water level data insufficient to determine the extent of the capture zone created by the groundwater pumping system. However, groundwater contours indicate that the constant pumping rate maintains the same relative effect on groundwater flow through both high and low water table conditions.

ORIGINAL



Mr. Richard Watman (3HS22)
Page 5
September 30, 2003

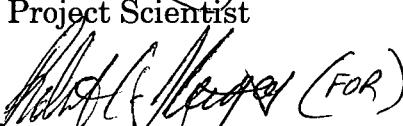
Groundwater quality data illustrates that a majority of contaminants have steadily declined in concentration since initiation of the groundwater abatement system. These improvements to groundwater quality are expected to continue with sustained operation of the groundwater abatement system in addition to Fill Areas 1, 2, and 3 capping activities scheduled to occur with future cell development. Finally, in order to address uncertainties with the extent of the groundwater abatement system capture zone, confirmation was obtained that groundwater is not used as a potable supply downgradient from the site. Therefore, the selected remedy remains protective of downgradient human receptors.

We trust the information presented herein is sufficient to satisfy U.S. EPA's needs to complete the Five Year Review. If you have any questions or require any additional information, please call us at (724) 327-5200.

Very truly yours,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.


Robert C. Dlugos
Project Scientist


David N. Olson, P.G.
Senior Project Manager

RCD:DNO/jg
Enclosures

cc: W. Tomayko (DEP)
T. McMonigle (Chrin)

L-230837.S30/W

ORIGINAL

ORIGINAL

TABLES

TABLE 1
GROUNDWATER ELEVATION SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

DATE	Groundwater Elevations (feet above sea level)															
	DM-2*	DM-9	DM-10*	DM-11*	MW-1*	MW-3	MW-9*	MW-9A	DM-1	DM-4*	DM-8	PZ-3*	MW-2*	MW-12	N-8	
7/15/1998	193.69	180.65	181.76	180.58	193.43	180.90	196.28			523.94	182.12	198.99	464.54	480.37		
10/9/1998	190.30	176.40	177.29	176.10	190.22	176.69	192.68			514.20	176.87	196.39	460.64	478.07		
1/13/1999	188.79	174.56	175.36	174.16	188.72	174.79	191.18			519.00	176.39	193.55	459.03	477.53		
4/13/1999	190.30	176.82	177.70	176.54	190.12	177.23	190.14	189.76	245.33	522.84	177.01	194.98	479.88	477.33	177.56	
4/20/1999	190.19	176.64	177.46	176.40	190.02	177.05	190.00	189.64	245.76	521.74	176.82	195.25	480.64	477.29	177.32	
4/21/1999	190.17	176.18	177.54	176.30	190.00	177.01	190.03	189.60	245.57	521.74	176.75	195.03	480.78	477.31	177.26	
4/22/1999	190.07	176.04	177.40	175.80	190.02	176.52	190.03	189.56	245.71	521.77	176.62	195.03	481.04	476.76	177.18	
4/23/1999	190.20	176.04	177.32	175.68	190.04	176.41	190.03	189.64	245.66	521.82	176.59	194.97	481.19	477.41	177.16	
4/24/1999	190.15	175.84	177.19	175.60	189.98	176.27	189.98	189.59	245.71	521.82	176.37	194.98	481.94	477.46	177.40	
4/26/1999	190.25	175.86	177.24	175.58	190.10	176.29	190.10	189.69	245.81	522.16	176.51	195.03	483.23	477.85	177.02	
4/27/1999	190.25	175.84	177.17	175.72	190.07	176.44	190.07	189.66	246.03	522.38	176.44	195.03	482.65	477.95	176.96	
4/28/1999	190.19	175.79	177.13	175.50	190.02	176.22	190.03	189.62	245.91	522.52	176.31	194.91	482.10	477.99	176.98	
4/29/1999	190.20	175.76	177.09	175.46	191.02	176.19	190.02	189.61	245.95	522.72	176.33	194.95	481.61	478.05	176.92	
4/30/1999	190.13	175.68	177.02	175.40	189.86	176.09	189.97	189.54	245.95	522.75	176.25	194.93	481.17	477.16		
5/1/1999	190.15	175.68	176.99	175.33	189.85	176.06	189.98	189.53	246.00	522.92	176.25	194.97	480.99	477.25	176.77	
5/3/1999	190.15	175.72	177.02	175.32	189.86	176.03	189.98	189.54	246.15	523.30	176.35	194.95	480.33	477.35	176.80	
5/4/1999	190.05	175.71	177.02	175.30	189.84	176.01	189.93	189.52	246.19	523.40	176.34	194.95	479.94	477.36	176.79	
5/5/1999	190.09	175.70	176.99	175.30	189.84	176.06	189.94	189.52								

TABLE 1
GROUNDWATER ELEVATION SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

DATE	Groundwater Elevations (feet above sea level)															
	DM-2*	DM-9	DM-10*	DM-11*	MW-1*	MW-3	MW-9*	MW-9A	DM-1	DM-4*	DM-8	PZ-3*	MW-2*	MW-12	N-8	
5/7/1999	190.09	175.70	176.99	175.30	189.84	176.06	189.93	189.52								
5/10/1999	190.05	175.65	176.94	175.28	189.75	175.96	189.98	189.43	246.33	523.42	176.24	194.64	477.19	477.49	176.71	
5/12/1999	189.99	175.67	176.96	175.25	189.72	175.99	189.81	189.40								
5/14/1999	189.90	175.68	176.90	175.37	189.63	175.99	189.76	189.32								
5/17/1999	189.84	175.58	176.84	175.20	189.60	175.85	189.68	189.26	244.36	522.52	176.17	194.73	474.76	477.20	176.60	
5/19/1999	189.88	175.73	176.94	175.65	189.60	176.36	189.68	189.24								
5/21/1999	189.77	175.76	177.00	175.72	189.57	176.47	189.68	189.24								
5/24/1999	189.90	175.94	177.17	175.90	189.65	176.61	189.71	189.29	246.53	521.84	176.59	194.69	473.50	477.03	176.92	
5/26/1999	189.83	175.80	177.06	175.79	189.66	176.49	189.78	189.34								
5/28/1999	189.80	175.62	176.89	175.17	189.60	175.89	189.68	189.26	246.41	521.50	176.13	194.43	473.26	476.76	176.67	
6/2/1999	189.75	175.42	176.66	175.21	189.50	175.92	189.58	189.14								
6/4/1999	189.65	175.29	176.53	175.00	189.40	175.76	189.48	189.06								
6/7/1999	189.55	174.85	176.16	174.00	189.33	174.72	189.38	188.98	246.20	520.72	175.43	194.21	471.28	476.08	176.03	
6/9/1999	188.93	174.48	175.93	173.79	189.19	174.49	189.05	188.89								
6/11/1999	188.49	174.73	175.95	174.46	188.58	175.11	188.33	188.33								
6/14/1999	188.26	174.72	175.95	174.20	188.45	174.91	188.03	188.22	245.87	520.11	176.38	193.66	470.02	475.62	175.87	
6/16/1999	187.91	174.58	175.83	174.07	188.23	174.85	187.74	188.03								
6/18/1999	187.83	174.51	175.73	174.04	188.04	174.78	187.75	187.69								

ORIGINAL

TABLE 1
GROUNDWATER ELEVATION SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

DATE	Groundwater Elevations (feet above sea level)															
	DM-2*	DM-9	DM-10*	DM-11*	MW-1*	MW-3	MW-9*	MW-9A	DM-1	DM-4*	DM-8	PZ-3*	MW-2*	MW-12	N-8	
6/21/1999	187.78	174.42	175.66	173.86	187.98	174.66	187.66	187.59	245.45	519.47	175.10	193.18	468.78	475.04	175.59	
6/23/1999	187.70	174.33	175.88	173.88	187.93	174.56	187.55	187.73								
6/25/1999	187.48	174.33	175.33	173.92	187.86	174.65	187.57	187.50								
6/28/1999	187.92	174.18	175.22	173.69	188.05	173.98	187.80	187.63	245.32	518.86	174.95	193.27	467.73	474.49	175.41	
6/30/1999	187.63	174.28	175.22	174.06	187.76	174.26	187.43	187.39								
7/2/1999	187.39	174.18	174.99	173.89	187.70	174.07	187.41	187.47								
7/6/1999	187.21	174.12	174.93	173.35	187.55	174.06	187.15	187.22	244.81	518.11	174.63	193.05	466.60	473.72	175.07	
7/7/1999	187.14	174.01	174.81	173.65	187.46	173.91	187.05	187.13								
7/9/1999	187.11	173.98	174.71	173.69	187.38	173.90	187.04	187.03								
7/12/1999	186.99	173.88	174.82	173.92	187.76	174.43	187.83	187.29	244.31	517.57	174.57	192.90	465.83	473.10	174.97	
7/14/1999	187.10	173.88	174.70	173.11	187.42	173.86	187.08	186.98								
7/16/1999	186.97	173.83	174.61	173.04	187.31	173.79	186.97	186.99								
7/19/1999	187.00	173.52	174.47	172.79	187.15	173.59	186.87	186.82	243.72	516.73	173.24	192.14	464.73	472.39	174.74	
7/21/1999	186.65	173.35	174.33	172.68	186.99	173.46	186.56	186.71								
7/23/1999	186.54	173.25	174.29	172.62	186.96	173.41	186.57	186.62								
7/26/1999	186.42	173.20	174.22	173.16	186.89	173.28	186.47	186.62	243.20	516.09	173.96	191.85	464.12	471.86	174.60	
7/28/1999	186.34	173.05	174.16	172.42	186.87	173.20	186.42	186.28								
7/30/1999	186.29	173.18	174.18	172.69	186.68	173.42	186.27	186.42								

TABLE 1
GROUNDWATER ELEVATION SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

DATE	Groundwater Elevations (feet above sea level)														
	DM-2*	DM-9	DM-10*	DM-11*	MW-1*	MW-3	MW-9*	MW-9A	DM-1	DM-4*	DM-8	PZ-3*	MW-2*	MW-12	N-8
8/2/1999	186.51	173.05	174.10	172.78	186.68	173.51	186.43	186.31	242.63	515.40	173.86	191.38	463.49	471.20	174.33
8/4/1999	186.07	173.12	173.98	172.59	186.48	173.30	186.07	186.27							
8/6/1999	186.00	172.93	173.91	172.58	186.37	173.26	185.99	186.17							
8/9/1999	186.01	172.85	173.83	172.38	186.43	173.21	185.97	186.17	241.98	514.76	173.71	191.30	462.88	470.74	174.27
8/11/1999	186.01	172.88	173.90	172.34	186.48	173.16	185.93	186.09							
8/13/1999	185.87	172.88	173.79	172.28	186.38	173.13	186.00	186.00							
8/16/1999	186.03	172.83	173.81	172.39	186.46	173.11	185.98	186.23	241.70	514.25	173.62	191.22	462.28	470.45	174.29
8/18/1999	185.99	172.68	173.73	171.81	186.45	172.67	185.87	186.18							
8/20/1999	185.89	172.42	173.50	171.44	186.44	172.38	185.87	186.06							
8/23/1999	185.83	172.27	173.28	171.25	186.21	172.20	185.84	185.96	240.98	513.73	172.96	191.05	461.78	469.80	174.01
8/25/1999	185.72	172.22	173.20	171.26	186.16	172.08	185.73	185.93							
8/27/1999	186.23	172.40	173.42	171.93	186.49	172.71	186.00	186.13							
8/30/1999	186.12	172.56	173.53	172.08	186.51	172.85	186.09	186.21	240.80	513.16	173.33	191.09	462.33	469.69	174.14
9/1/1999	186.09	172.59	173.56	172.08	186.49	172.85	186.11	186.25							
9/3/1999	186.14	172.48	173.56	172.00	186.46	172.80	186.02	186.21							
9/8/1999	186.08	172.38	173.47	171.98	186.49	172.75	186.02	186.29							
9/10/1999	186.12	172.53	173.47	171.99	186.49	172.76	186.12	186.21							
9/13/1999	186.06	172.43	173.47	171.91	186.47	172.72	186.04	186.12	240.25	512.79	173.22	191.03	460.88	468.73	174.06

TABLE 1
GROUNDWATER ELEVATION SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

DATE	Groundwater Elevations (feet above sea level)														
	DM-2*	DM-9	DM-10*	DM-11*	MW-1*	MW-3	MW-9*	MW-9A	DM-1	DM-4*	DM-8	PZ-3*	MW-2*	MW-12	N-8
9/15/1999	186.07	172.43	173.43	171.89	186.45	172.70	186.02	186.18							
9/20/1999	188.63	175.42	176.58	174.73	188.87	175.43	188.56	188.73	242.19	522.29	175.66	192.60	481.22	478.64	176.74
9/22/1999	188.69	175.68	176.83	175.04	188.93	175.75	188.66	188.75							
9/22/1999	188.47	175.75	176.77	175.09	188.87	175.80	188.66	188.72							
9/24/1999	187.37	175.52	176.60	174.91	188.68	175.66	188.50	188.39					475.03		
9/27/1999	188.20	175.52	176.61	174.83	188.54	175.60	188.31	188.28	243.29	517.63	175.84	192.34		475.27	176.99
9/29/1999	188.24	175.33	176.52	174.75	188.53	175.52	188.20	188.23							
10/1/1999	188.24	175.33	176.52	174.75	188.53	175.52	188.16	188.23							
10/4/1999	188.21	175.47	176.59	174.74	188.62	175.56	186.26	190.29	244.53	515.68	175.86	192.31	473.94	473.39	176.90
10/6/1999	188.23	175.46	176.52	174.82	188.54	175.55	188.17	188.38							
10/8/1999	188.14	175.48	176.41	174.71	188.45	175.45	188.09	188.21							
10/15/1999	188.13	175.31	176.35	174.71	188.47	175.42	188.05	188.23							
10/18/1999	188.10	175.36	176.38	174.69	188.39	175.42	188.15	188.13	245.98	514.75	175.83	192.34	473.20	471.55	176.93
10/20/1999	187.93	175.16	176.20	174.49	188.23	175.23	187.95	187.93							
10/22/1999	187.99	175.13	176.18	174.49	188.25	175.25	187.92	188.00							
10/25/1999	187.72	174.86	175.87	174.23	188.06	174.91	187.64	187.07	246.35	514.40	175.24	192.05	471.44	470.96	176.41
10/27/1999	187.60	174.56	175.77	174.01	187.89	174.77	187.61	187.66							
10/29/1999	187.46	174.51	175.48	173.82	187.79	174.58	187.40	187.57							

TABLE 1
GROUNDWATER ELEVATION SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

DATE	Groundwater Elevations (feet above sea level)															
	DM-2*	DM-9	DM-10*	DM-11*	MW-1*	MW-3	MW-9*	MW-9A	DM-1	DM-4*	DM-8	PZ-3*	MW-2*	MW-12	N-8	
11/1/1999	187.36	174.08	175.26	173.49	187.71	174.20	187.40	187.38	246.20	514.03	174.73	191.54	470.13	470.19	175.96	
11/3/1999	187.39	174.08	175.11	173.48	187.73	174.23	187.41	187.42								
11/5/1999	187.38	173.96	174.95	173.34	187.78	174.10	187.41	187.49								
11/8/1999	187.57	174.06	175.20	173.86	187.91	174.65	187.65	187.69	246.09	514.21	174.80	191.50	470.86	469.84	175.93	
11/10/1999	187.37	174.12	175.07	173.41	187.83	174.18	185.44	189.59								
11/12/1999	187.21	173.63	174.84	173.32	187.58	173.95	187.25	187.33								
11/15/1999	187.31	173.73	174.69	172.99	187.68	173.85	187.39	187.36	245.74	513.50	174.63	191.42	469.96	469.33	175.46	
11/17/1999	187.13	173.45	174.61	172.83	187.49	173.66	187.18	187.25								
11/19/1999	187.08	173.38	174.56	172.68	187.37	173.56	187.16	187.08								
11/22/1999	186.94	173.50	174.38	172.69	187.38	173.44	187.05	187.07	245.75	513.63	173.86	191.47	468.61	469.00	174.36	
11/24/1999	186.91	173.41	174.23	173.05	187.32	173.37	187.07	187.01								
11/26/1999	186.91	173.36	174.17	173.02	187.35	173.32	187.06	186.99								
11/29/1999	187.26	173.51	174.28	172.73	187.69	173.52	187.36	187.43	245.77	513.78	173.94	191.39	477.32	469.80	174.51	
12/1/1999	187.41	173.39	174.42	172.88	187.81	173.66	187.57	187.57								
12/3/1999	187.51	173.90	174.65	173.08	187.87	173.68	187.55	187.67								
12/6/1999	187.47	173.55	174.68	173.09	187.77	173.83	187.49	187.59	245.45	514.29	174.28	191.45	475.89	469.63	176.23	
12/8/1999	187.30	173.73	174.51	172.67	188.68	173.69	187.34	187.38								
12/10/1999	187.31	173.83	174.56	173.02	187.71	173.76	187.39	187.39								

TABLE 1
GROUNDWATER ELEVATION SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

DATE	Groundwater Elevations (feet above sea level)														
	DM-2*	DM-9	DM-10*	DM-11*	MW-1*	MW-3	MW-9*	MW-9A	DM-1	DM-4*	DM-8	PZ-3*	MW-2*	MW-12	N-8
12/13/1999	187.20	173.69	174.50	173.42	187.60	173.66	187.26	187.38	245.13	514.21	174.03	192.97	474.53	469.54	175.17
12/15/1999	187.26	173.66	174.46	173.34	187.69	173.65	187.33	187.43							
12/17/1999	187.44	173.85	174.56	173.03	187.82	173.76	187.55	187.62							
12/20/1999	187.48	173.92	174.72	173.07	187.84	173.91	187.59	187.70	245.10	515.06	174.26	192.90	479.48	470.46	175.56
12/22/1999	187.58	173.98	174.79	173.26	187.96	173.96	187.59	187.72							
12/24/1999	187.54	173.99	174.85	173.22	188.02	173.85	187.55	187.65							
12/27/1999	187.43	173.70	174.75	173.14	187.88	173.83	187.57	187.57	245.07	515.85	174.39	192.87	478.74	470.87	175.48
12/29/1999	187.33	173.71	174.72	173.06	187.79	173.85	187.45	187.68							
1/3/2000	187.17	173.72	174.46	172.88	187.68	173.61	187.30	187.17	244.86	516.25	174.00	193.00	476.53	470.86	174.81
1/5/2000	187.59	173.57	174.43	173.52	187.73	173.76	187.61	186.43							
1/7/2000	187.37	173.60	174.37	172.68	187.64	173.54	187.42	187.35							
1/10/2000	187.32	173.58	174.30	172.66	187.64	173.46	187.45	187.36	244.80	516.09	174.05	192.97	476.46	470.90	174.79
1/12/2000	187.29	173.45	174.22	172.59	187.66	173.41	187.39	187.38							
1/14/2000	187.29	173.48	174.23	172.62	187.65	173.37	187.41	187.36							
1/17/2000	187.32	173.46	174.25	172.70	187.65	173.48	187.55	187.34	244.31	517.59	173.92	192.92	478.64	471.43	174.55
1/19/2000	187.29	173.47	174.30	172.67		173.50	187.52	187.32							
1/24/2000	187.27	173.42	174.22	172.55	187.57	173.38	187.51	187.34	244.52	517.64	173.81	192.91	476.24	471.20	174.56
2/1/2000	187.54	173.57	174.31	173.63	187.68	173.86	187.75	187.30	244.54	517.58	174.06	192.94	474.03	471.18	174.87

TABLE 1
GROUNDWATER ELEVATION SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

DATE	Groundwater Elevations (feet above sea level)															
	DM-2*	DM-9	DM-10*	DM-11*	MW-1*	MW-3	MW-9*	MW-9A	DM-1	DM-4*	DM-8	PZ-3*	MW-2*	MW-12	N-8	
2/2/2000	187.88	173.56	174.35	173.67	187.69	173.79	187.92	187.36								
2/7/2000	186.67	173.31	174.12	173.69	187.04	173.26	186.67	186.77	244.12	516.78	173.73	192.47	472.74	471.19	174.81	
2/9/2000	186.59	173.32	174.07	172.84	186.96	173.20	186.51	186.70								
2/11/2000	186.57	173.28	174.07	173.01	186.98	173.23	186.57	186.76								
2/14/2000	186.74	174.30	174.25	172.85	187.24	173.04	186.76	186.78	244.00	517.09	173.68	192.99	473.57	471.48	175.44	
2/16/2000	186.68	174.25	174.02	172.89	187.19	173.08	186.68	186.77								
2/18/2000	186.81	173.36	174.08	172.95	187.18	173.28	186.71	186.92								
2/22/2000	186.92	173.48	174.21	173.07	187.20	173.48	186.74	186.95	243.89	517.08	173.86	193.00	477.82	471.44	175.41	
2/23/2000	187.00	173.53	174.30	173.18	187.37	173.52	186.92	186.94								
2/28/2000	187.53	173.98	174.76	173.72	187.84	173.96	187.41	187.61	244.27	518.75	174.35	193.22	488.88	474.07	175.47	
3/1/2000	187.14	174.43	175.15	174.13	188.24	174.46	187.90	188.07								
3/3/2000	188.17	174.86	175.58	174.67	188.54	174.90	188.15	188.42								
3/6/2000	188.20	175.13	175.86	174.87	188.48	175.14	188.14	188.26	244.57	525.13	175.26	193.34	480.89	477.36	176.65	
3/10/2000	187.99	175.23	175.97	174.89	188.34	175.19	187.95	188.12								
3/13/2000	188.08	175.31	176.06	174.98	188.46	175.26	188.06	188.25	244.84	524.76	175.40	193.40	482.78	477.93	176.86	
3/15/2000	188.24	175.42	176.22	175.16	188.63	175.43	188.16	188.36								
3/17/2000	188.31	175.47	176.27	175.26	188.72	175.52	188.26	188.43								
3/20/2000	188.53	175.66	176.78	175.46	188.77	175.66	188.42	188.62	245.23	525.93	175.83	193.61	484.53	478.99	177.50	

TABLE 1
GROUNDWATER ELEVATION SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

DATE	Groundwater Elevations (feet above sea level)															
	DM-2*	DM-9	DM-10*	DM-11*	MW-1*	MW-3	MW-9*	MW-9A	DM-1	DM-4*	DM-8	PZ-3*	MW-2*	MW-12	N-8	
3/22/2000	188.61	175.76	176.57	175.49	188.93	175.75	188.52	188.68								
3/24/2000	188.99	176.10	176.83	175.29	189.32	176.04	188.84	189.01								
3/29/2000	189.51	176.50	177.31	176.17	189.83	176.49	189.37	189.59								
3/31/2000	189.48	176.56	177.32	176.26	189.84	176.48	189.44	189.60								
4/3/2000	189.28	176.43	177.37	176.12	189.59	176.46	189.26	189.36	246.60	527.01	176.64	194.99	482.43	480.37	178.30	
4/7/2000	189.26	176.35	177.16	176.02	189.48	176.35	189.06	189.19								
4/10/2000	189.11	176.21	177.13	175.96	189.48	176.20	188.97	189.18	246.89	526.55	175.35	194.92	482.60	480.45	178.00	
4/12/2000	189.04	176.32	177.16	176.17	189.38	176.23	189.04	189.18								
4/14/2000	189.04	176.46	177.22	176.07	189.34	176.36	189.02	189.20								
4/17/2000	189.09	176.47	177.30	176.14	189.39	176.36	188.99	189.18	247.57	526.39	176.61	194.97	477.42	479.49	177.87	
4/19/2000	189.01	176.27	177.16	175.97	189.34	176.29	188.97	189.10								
4/24/2000	189.12	176.48	177.25	176.18	189.56	176.48	189.21	189.35	248.46	528.84	176.76	195.39	488.26	483.10	178.20	
4/26/2000	189.36	176.60	177.52	176.41	189.72	176.61	189.27	189.46								
4/28/2000	189.39	176.67	177.55	176.36	189.67	176.66	189.29	189.46								
5/1/2000	189.43	176.62	177.51	176.32	189.69	176.58	189.20	189.38	248.58	529.56	176.75	195.37	481.26	484.18	178.06	
5/3/2000	189.38	176.62	177.43	175.78	189.59	176.53	189.19	189.31								
5/5/2000	189.22	176.68	177.53	176.42	189.64	176.63	189.23	189.40								
5/8/2000	189.22	176.76	177.65	176.42	189.63	176.71	189.07	189.35	249.10	527.87	176.95	195.41	477.81	483.97	178.20	

TABLE 1
GROUNDWATER ELEVATION SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

DATE	Groundwater Elevations (feet above sea level)															
	DM-2*	DM-9	DM-10*	DM-11*	MW-1*	MW-3	MW-9*	MW-9A	DM-1	DM-4*	DM-8	PZ-3*	MW-2*	MW-12	N-8	
5/10/2000	189.30	176.72	177.57	176.36	189.48	176.74	189.06	189.20								
7/25/2000	189.72	176.32	177.16	176.22	189.38	176.23	189.68	190.94	250.35	517.12	176.59	195.84	469.25	476.06	179.01	
10/11/2000	189.00		177.24	174.26	188.01	175.47	187.46	189.63	248.37	504.78	175.46	195.13	475.69	469.15	179.76	
1/16/2001	186.77	168.94	173.84	172.30	187.25	173.01	186.90	186.92	242.59	502.92	173.51	193.21	463.09	466.61	174.73	
2/21/2001	190.85	175.64	177.74	174.30	190.60	174.87	188.18	188.64	242.41	502.42	174.31	193.70	477.20	468.64	175.65	
3/20/2001	191.65	176.24	178.44	174.90	191.60	175.47	188.18	189.44	245.90	502.42	175.09	194.49	482.17	476.35	176.16	
4/17/2001	192.55	178.04	180.44	176.60	192.30	177.47	189.58	190.24	246.94	502.42	177.17	194.61	479.63	480.49	178.34	
5/23/2001	191.65	177.44	179.64	175.80	191.40	176.57	188.58	189.54	247.53	502.42	176.14	195.31	472.34	476.95	177.33	
6/18/2001	192.45	177.84	180.14	176.40	191.80	177.17	188.48	189.41	248.17	502.42	176.56	195.03	472.53	473.41	178.77	
7/24/2001	191.45	177.44	179.74	175.80	179.60		188.38	189.12	249.28	502.42	176.72	195.57	468.39	478.01	177.71	
8/14/2001	191.65	177.24	179.44	175.50	191.30		188.58	189.14	248.92	502.42	175.95	195.42	466.26	476.40	177.20	
9/12/2001	192.75	175.94	178.14	174.40	191.00		187.97	188.96	243.96	502.42	174.78	194.49	460.79	473.41	175.38	
10/16/2001	191.05	174.74	177.34	173.50	189.70		187.78	188.63	243.47	502.42	175.89	194.59	460.75		175.24	
11/9/2001	190.35	174.04	176.24	172.40	189.30		186.87	187.13	242.80		175.83	194.33	460.44		174.82	
12/11/2001	189.65	173.64	175.84	172.30	188.80		186.58	185.69	238.42		174.91	192.95	459.96		174.91	
1/8/2002	189.45	173.54	175.74	172.10	188.50		186.28	186.44	235.39		172.73	192.61	458.80		175.88	
2/6/2002	189.05	173.04	175.24	171.80	188.00		185.88	186.34	234.55	475.66	172.45	192.27	457.69		176.30	
3/7/2002	187.85	171.14	173.64	170.20	186.80		184.68	185.19	234.18	474.90	172.13	192.02	455.80		173.43	

TABLE 1
GROUNDWATER ELEVATION SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

DATE	Groundwater Elevations (feet above sea level)															
	DM-2*	DM-9	DM-10*	DM-11*	MW-1*	MW-3	MW-9*	MW-9A	DM-1	DM-4*	DM-8	PZ-3*	MW-2*	MW-12	N-8	
4/2/2002	189.25	174.04	176.24	173.10	179.50	173.02	185.48	186.19	234.61		173.37	192.07	462.21			173.92
5/2/2002	190.55	176.94	179.34	175.90	189.40	174.57	186.78	186.44	235.01	480.30	173.62	192.35	462.30			173.24
6/2/2002	192.45	177.84	180.14	176.40	191.80	177.17	189.28	190.14	234.87	483.42	174.07	192.48	462.39			173.01
7/2/2002	190.55	175.84	178.14	174.10	188.90	174.22	186.53	187.49	236.45	485.90	174.74	192.63	462.71			173.97
8/2/2002	190.35	174.54	176.94	172.80	188.40	174.67	186.07	187.64	238.32	485.29	173.06	191.92	462.34			174.50
9/2/2002	191.35	176.24	178.34	174.40	190.80	175.27	188.28	188.44	237.71	484.24	172.51	191.81	462.73			174.22
10/2/2002	188.25	164.54	175.84	171.90	187.40	175.47	186.78	186.44	238.07	482.17	172.37	191.47	460.00			173.64
11/2/2002	190.65	164.84	178.04	173.90	189.30	175.67	186.98	186.50	238.19	482.52	173.47	191.65	467.57			174.01
12/2/2002	190.35	164.54	178.34	174.10	189.00	176.51	187.38	186.44	237.90	483.00	174.32	192.22	469.55			174.49
1/2/2003	188.55	177.11	178.04	176.17	189.35	176.77	188.63	187.14	242.60	494.34	177.07	193.09	483.39			174.65
2/2/2003	192.15	175.94	179.04	175.10	190.60	176.27	188.83	187.34	244.20	493.43	175.06	193.54	482.11			176.16
3/2/2003	194.65	179.24	180.94	177.10	192.90	178.77	191.18	189.54	246.20	500.53	177.34	194.42	488.15			178.38
4/2/2003	194.85	180.54	183.04	178.80	194.50	180.35	192.17	190.42		502.42	178.45	197.19	487.49			178.70
5/2/2003	180.61	176.86	177.90	176.02	186.78		191.08	190.60			176.91	196.37				178.00
6/2/2003	183.55	180.34	181.44	179.60	189.70			194.39		500.68	180.03		482.15			
7/2/2003	181.79	178.54	179.66	177.94	188.24		192.38	192.74		497.30	178.47	195.61	472.11			179.82
8/2/2003	181.74	179.36	180.26	178.82	188.26		193.03	192.60		494.99	179.17	200.09	472.25			180.42

* Abatement Zone Network Wells

TABLE 2A
ABATEMENT MONITORING WELL SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

DM-2

Parameter	Cleanup								
	Level (ESD)	01/16/98	04/16/98	07/15/98	10/08/98	01/13/99	04/29/99	07/14/99	10/13/99
1,1,1-Trichloroethane	200	5	6	7	7	5	5	5	6
1,1-Dichloroethane	27	29	26	33	28	28	32	23	24
1,1-Dichloroethene	7	4	4	4	5	1	<5	<5	<5
1,2-Dichloroethane	5	1	1	2	2	1	--	--	--
1,2-Dichloropropane	5	1	1	2	2	2	<5	<5	<5
1,4-Dichlorobenzene	75	2	1	1	2	2	<5	<5	<5
Benzene	5	1	1	1	<1	1	<5	<5	<5
Carbon Tetrachloride	5	<1	<1	<1	<1	<1	<5	<5	<5
Chlorobenzene	100	56	47	65	83	53	57	48	46
cis 1,2-Dichloroethene	70	9	12	14	12	7	13	9	10
Iron (Dissolved)	--	0.25	0.22	0.34	0.55	0.30	0.33	0.08	0.07
Iron (Total)	--	2.97	1.69	1.11	1.24	1.13	1.15	0.15	0.10
Manganese (Dissolved)	--	5.70	5.55	5.59	6.05	5.21	5.91	4.23	3.41
Manganese (Total)	--	5.83	5.57	5.53	5.88	5.25	6.05	4.29	3.42
Methylene Chloride	5	<1	1	2	<1	<1	<5	<5	<5
Tetrachloroethene	5	3	4	5	4	3	5	6	7
trans 1,2-Dichloroethene	100	<1	<1	<1	<1	<1	<5	<5	<5
Trichloroethene	5	15	14	20	20	12	16	16	14
Trichloromethane (Chloroform)	100	<1	1	1	<1	1	<5	<5	<5
Vinyl Chloride	2	2	1	2	2	1	<2	<2	<2

TABLE 2A
ABATEMENT MONITORING WELL SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

DM-2

	Cleanup								
Parameter	Level (ESD)	01/19/00	04/12/00	07/25/00	10/11/00	01/17/01	04/18/01	07/25/01	10/17/01
1,1,1-Trichloroethane	200	5	5	5	<5	5	<5	<5	6
1,1-Dichloroethane	27	25	26	20	21	21	19	19	21
1,1-Dichloroethene	7	<5	<5	<5	<5	<5	<5	<5	6
1,2-Dichloroethane	5	--	--	--	--	--	--	--	--
1,2-Dichloropropane	5	<5	<5	<5	<5	<5	<5	<5	<5
1,4-Dichlorobenzene	75	<5	<5	<5	<5	<5	<5	<5	<5
Benzene	5	<5	<5	<5	<5	<5	<5	<5	<5
Carbon Tetrachloride	5	8	<5	<5	<5	5	<5	<5	<5
Chlorobenzene	100	42	46	50	39	34	46	36	42
cis 1,2-Dichloroethene	70	8	10	8	9	9	9	8	9
Iron (Dissolved)	--	0.27	0.14	0.13	0.05	0.03	0.08	0.04	0.06
Iron (Total)	--	0.25	1.75	1.42	0.07	0.04	0.58	0.05	0.07
Manganese (Dissolved)	--	3.23	3.33	3.36	2.72	2.63	2.87	2.74	2.60
Manganese (Total)	--	3.29	3.38	3.35	2.73	2.64	2.95	2.75	2.47
Methylene Chloride	5	<5	<5	<5	<5	<5	<5	<5	<5
Tetrachloroethene	5	7	8	7	7	7	8	7	7
trans 1,2-Dichloroethene	100	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene	5	12	14	15	15	13	14	13	15
Trichloromethane (Chloroform)	100	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	2	<2	<2	<2	<2	<2	3	<2	<2

TABLE 2A
ABATEMENT MONITORING WELL SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

DM-2

ORIGINAL

Parameter	Cleanup				
	Level (ESD)	02/06/02	04/17/02	07/17/02	10/09/02
1,1,1-Trichloroethane	200	5	<5	<5	<5
1,1-Dichloroethane	27	22	17	16	15
1,1-Dichloroethene	7	<5	<5	<5	<5
1,2-Dichloroethane	5	--	--	--	--
1,2-Dichloropropane	5	<5	<5	<5	<5
1,4-Dichlorobenzene	75	<5	<5	<5	<5
Benzene	5	<5	<5	<5	<5
Carbon Tetrachloride	5	6	5	<5	<5
Chlorobenzene	100	37	28	23	22
cis 1,2-Dichloroethene	70	9	7	6	6
Iron (Dissolved)	--	0.04	0.04	0.09	<0.03
Iron (Total)	--	0.23	0.06	0.15	0.21
Manganese (Dissolved)	--	2.17	2.04	2.44	1.85
Manganese (Total)	--	2.16	2.03	2.48	1.87
Methylene Chloride	5	<5	<5	<5	<5
Tetrachloroethene	5	9	7	<5	7
trans 1,2-Dichloroethene	100	<5	<5	<5	<5
Trichloroethene	5	14	11	10	9
Trichloromethane (Chloroform)	100	<5	<5	<5	<5
Vinyl Chloride	2	<2	<2	<2	<2

TABLE 2B
ABATEMENT MONITORING WELL SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

DM-4

Parameter	Cleanup	01/15/98	04/16/98	07/15/98	10/08/98	01/13/99	04/29/99	07/14/99	10/14/99
	Level (ESD)								
1,1,1-Trichloroethane	200	<5	<5	<0.5	<5	<5	<5	<5	<5
1,1-Dichloroethane	27	<5	<5	<0.5	<5	<5	<5	<5	<5
1,1-Dichloroethene	7	<5	<5	<0.5	<5	<5	<5	<5	<5
1,2-Dichloroethane	5	--	--	<0.5	<1	<0.5	--	--	--
1,2-Dichloropropane	5	--	--	<0.5	<1	<0.5	<5	<5	<5
1,4-Dichlorobenzene	75	--	--	<0.5	<1	<0.5	<5	<5	<5
Benzene	5	<5	<5	<0.5	<5	<5	<5	<5	<5
Carbon Tetrachloride	5	--	--	<0.5	<1	<0.5	<5	<5	<5
Chlorobenzene	100	--	--	<0.5	<1	<0.5	<5	<5	<5
cis 1,2-Dichloroethene	70	<5	<5	<0.5	<5	<5	<5	<5	<5
Iron (Dissolved)	--	0.05	1.5	0.1	0.05	<0.05	0.11	0.79	<0.03
Iron (Total)	--	1.6	2	0.17	5.53	0.29	2.01	4.1	0.87
Manganese (Dissolved)	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Manganese (Total)	--	0.01	<0.01	<0.01	0.04	<0.01	0.01	0.05	<0.01
Methylene Chloride	5	<5	<5	<0.5	<5	<5	<5	<5	<5
Tetrachloroethene	5	<5	<5	<0.5	<5	<5	<5	<5	<5
trans 1,2-Dichloroethene	100	<5	<5	<0.5	<5	<5	<5	<5	<5
Trichloroethene	5	<5	<5	<0.5	<5	<5	<5	<5	<5
Trichloromethane (Chloroform)	100	--	--	<0.5	<1	<0.5	<5	<5	<5
Vinyl Chloride	2	<2	<2	<0.5	<5	<2	<2	<2	<2

TABLE 2B
ABATEMENT MONITORING WELL SUMMARY **ORIGINAL**
CHRIN BROTHERS SANITARY LANDFILL

DM-4

Parameter	Cleanup				
	Level (ESD)	01/19/00	04/12/00	07/25/00	10/12/00
1,1,1-Trichloroethane	200	<5	<5	<5	<5
1,1-Dichloroethane	27	<5	<5	<5	<5
1,1-Dichloroethene	7	<5	<5	<5	<5
1,2-Dichloroethane	5	--	--	--	--
1,2-Dichloropropane	5	<5	<5	<5	<5
1,4-Dichlorobenzene	75	<5	<5	<5	<5
Benzene	5	<5	<5	<5	<5
Carbon Tetrachloride	5	<5	<5	<5	<5
Chlorobenzene	100	<5	<5	<5	<5
cis 1,2-Dichloroethene	70	<5	<5	<5	<5
Iron (Dissolved)	--	0.03	<0.03	<0.03	0.17
Iron (Total)	--	1.1	0.22	0.17	0.19
Manganese (Dissolved)	--	<0.01	<0.01	<0.01	<0.01
Manganese (Total)	--	<0.01	<0.01	<0.01	<0.01
Methylene Chloride	5	<5	<5	<5	<5
Tetrachloroethene	5	<5	<5	<5	<5
trans 1,2-Dichloroethene	100	<5	<5	<5	<5
Trichloroethene	5	<5	<5	<5	<5
Trichloromethane (Chloroform)	100	<5	<5	<5	<5
Vinyl Chloride	2	<2	<2	<2	<2

TABLE 2C
ABATEMENT MONITORING WELL SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

DM-10

Parameter	Cleanup								
	Level (ESD)	01/15/98	04/16/98	07/15/98	10/08/98	01/13/99	04/29/99	07/14/99	10/13/99
1,1,1-Trichloroethane	200	24	23	29	11	12	25	10	15
1,1-Dichloroethane	27	32	28	34	17	25	37	17	21
1,1-Dichloroethene	7	5	5	5	2	3	6	<5	<5
1,2-Dichloroethane	5	<0.5	<0.5	<0.5	<1	<0.5	--	--	--
1,2-Dichloropropane	5	0.6	<0.5	0.7	<1	<0.5	<5	<5	<5
1,4-Dichlorobenzene	75	2	2	2	<1	0.6	--	<5	<5
Benzene	5	2	2	3	<1	0.9	<5	<5	<5
Carbon Tetrachloride	5	<0.5	<0.5	<0.5	<1	<0.5	<5	<5	<5
Chlorobenzene	100	0.8	<0.5	<0.5	<1	<0.5	<5	<5	<5
cis 1,2-Dichloroethene	70	16	17	21	10	11	19	9	12
Iron (Dissolved)	--	0.15	0.05	0.05	0.14	0.21	0.32	0.11	0.11
Iron (Total)	--	9.63	5.91	1.74	8.94	16	5.55	0.64	4.16
Manganese (Dissolved)	--	<0.01	<0.01	<0.01	0.03	0.03	0.03	0.01	0.01
Manganese (Total)	--	0.03	0.02	0.01	0.05	0.06	0.04	0.02	0.02
Methylene Chloride	5	2	2	3	<1	0.8	<5	<5	<5
Tetrachloroethene	5	7	7	8	4	5	8	<5	6
trans 1,2-Dichloroethene	100	<0.5	<0.5	0.7	<1	<0.5	<5	<5	<5
Trichloroethene	5	5	4	6	2	3	6	<5	<5
Trichloromethane (Chloroform)	100	0.8	0.8	1	<1	0.8	<5	<5	<5
Vinyl Chloride	2	5	5	5	<1	2	7	<2	3

TABLE 2C
ABATEMENT MONITORING WELL SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

DM-10

ORIGINAL

Parameter	Cleanup	DM-10								10/17/01
		01/19/00	04/12/00	07/25/00	10/11/00	01/17/01	04/18/01	07/25/01	10/17/01	
1,1,1-Trichloroethane	200	9	12	15	12	16	11	9	17	
1,1-Dichloroethane	27	18	18	18	18	23	18	13	25	
1,1-Dichloroethene	7	<5	<5	<5	<5	5	<5	<5	7	
1,2-Dichloroethane	5	--	--	--	--	--	--	--	--	
1,2-Dichloropropane	5	<5	<5	<5	<5	<5	<5	<5	<5	
1,4-Dichlorobenzene	75	<5	<5	<5	<5	<5	<5	<5	<5	
Benzene	5	<5	<5	<5	<5	<5	<5	<5	<5	
Carbon Tetrachloride	5	<5	<5	<5	<5	<5	<5	<5	<5	
Chlorobenzene	100	<5	<5	<5	<5	<5	<5	<5	<5	
cis 1,2-Dichloroethene	70	8	10	11	11	13	9	8	15	
Iron (Dissolved)	--	0.15	0.11	0.11	0.18	0.14	0.07	0.06	0.13	
Iron (Total)	--	2.02	6.48	3.08	0.72	4.55	2.29	2.99	2.38	
Manganese (Dissolved)	--	0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.01	
Manganese (Total)	--	0.02	0.01	0.01	<0.01	0.01	<0.01	<0.01	0.01	
Methylene Chloride	5	<5	<5	<5	<5	<5	<5	<5	<5	
Tetrachloroethene	5	<5	5	6	5	7	5	<5	7	
trans 1,2-Dichloroethene	100	<5	<5	<5	<5	<5	<5	<5	<5	
Trichloroethene	5	<5	<5	<5	<5	<5	<5	<5	<5	
Trichloromethane (Chloroform)	100	<5	<5	<5	<5	<5	<5	<5	<5	
Vinyl Chloride	2	2	3	3	3	4	4	2	5	

TABLE 2C
ABATEMENT MONITORING WELL SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

DM-10

Parameter	Cleanup				
	Level (ESD)	02/06/02	04/17/02	07/17/02	10/09/02
1,1,1-Trichloroethane	200	6	9	5	5
1,1-Dichloroethane	27	12	15	10	9
1,1-Dichloroethene	7	<5	<5	<5	<5
1,2-Dichloroethane	5	--	--	--	--
1,2-Dichloropropane	5	<5	<5	<5	<5
1,4-Dichlorobenzene	75	<5	<5	<5	<5
Benzene	5	<5	<5	<5	<5
Carbon Tetrachloride	5	<5	<5	<5	<5
Chlorobenzene	100	<5	<5	<5	<5
cis 1,2-Dichloroethene	70	7	9	5	5
Iron (Dissolved)	--	0.03	0.03	0.1	0.14
Iron (Total)	--	1.05	7.05	3.85	5.28
Manganese (Dissolved)	--	<0.01	<0.01	<0.01	<0.01
Manganese (Total)	--	<0.01	<0.01	<0.01	<0.01
Methylene Chloride	5	<5	<5	<5	<5
Tetrachloroethene	5	6	<5	<5	<5
trans 1,2-Dichloroethene	100	<5	<5	<5	<5
Trichloroethene	5	<5	<5	<5	<5
Trichloromethane (Chloroform)	100	<5	<5	<5	<5
Vinyl Chloride	2	<2	2	<2	<2

TABLE 2D
ABATEMENT MONITORING WELL SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

DM-11

	Cleanup								
Parameter	Level (ESD)	01/15/98	04/16/98	07/15/98	10/08/98	01/13/99	04/29/99	07/14/99	10/13/99
1,1,1-Trichloroethane	200	6	6	8	9	5	<5	<5	<5
1,1-Dichloroethane	27	28	30	42	43	36	23	20	18
1,1-Dichloroethene	7	1	2	2	3	2	<5	<5	<5
1,2-Dichloroethane	5	<0.5	<0.5	<0.5	<1	<0.5	--	--	--
1,2-Dichloropropane	5	<0.5	<0.5	<0.5	<1	<0.5	<5	<5	<5
1,4-Dichlorobenzene	75	2	1	2	3	2	<5	<5	<5
Benzene	5	2	2	4	4	3	<5	<5	<5
Carbon Tetrachloride	5	<0.5	<0.5	<0.5	<1	<0.5	<5	<5	<5
Chlorobenzene	100	1	0.9	2	3	2	<5	<5	<5
cis 1,2-Dichloroethene	70	16	19	31	35	23	14	12	10
Iron (Dissolved)	--	<0.05	0.05	<0.05	0.08	<0.05	0.07	<0.05	<0.03
Iron (Total)	--	0.28	0.36	1.37	0.35	0.46	2.18	<0.05	0.07
Manganese (Dissolved)	--	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01
Manganese (Total)	--	<0.01	<0.01	0.03	0.01	0.01	0.02	<0.01	<0.01
Methylene Chloride	5	18	19	29	32	19	11	7	<5
Tetrachloroethene	5	10	11	17	16	12	8	8	6
trans 1,2-Dichloroethene	100	<0.5	<0.5	<0.5	<1	<0.5	<5	<5	<5
Trichloroethene	5	15	17	27	29	18	12	15	13
Trichloromethane (Chloroform)	100	0.6	0.8	0.8	<1	0.5	<5	<5	<5
Vinyl Chloride	2	6	7	8	7	6	3	2	<2

TABLE 2D
ABATEMENT MONITORING WELL SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

DM-11

ORIGINAL

Parameter	Cleanup	Level (ESD)	04/12/00	07/25/00	10/11/00	01/17/01	04/18/01	07/25/01	10/17/01	02/06/02
1,1,1-Trichloroethane	200	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	27	15	21	18	16	12	11	15	14	
1,1-Dichloroethene	7	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	5	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,4-Dichlorobenzene	75	<5	<5	<5	<5	<5	<5	<5	<5	<5
Benzene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Carbon Tetrachloride	5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	100	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis 1,2-Dichloroethene	70	8	13	11	8	7	6	10	8	
Iron (Dissolved)	--	0.06	<0.03	0.04	<0.03	0.04	<0.03	<0.03	<0.03	<0.03
Iron (Total)	--	2.46	0.38	0.04	<0.03	0.12	<0.03	0.09	0.07	
Manganese (Dissolved)	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Manganese (Total)	--	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methylene Chloride	5	<5	9	<5	<5	<5	<5	<5	<5	<5
Tetrachloroethene	5	5	8	6	6	<5	<5	7	7	
trans 1,2-Dichloroethene	100	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene	5	11	14	13	13	8	9	14	12	
Trichloromethane (Chloroform)	100	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	2	<2	2	<2	<2	<2	<2	<2	<2	<2

TABLE 2D
ABATEMENT MONITORING WELL SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

DM-11

Parameter	Cleanup Level (ESD)	04/17/02	07/17/02	10/09/02
1,1,1-Trichloroethane	200	<5	<5	<5
1,1-Dichloroethane	27	15	14	14
1,1-Dichloroethene	7	<5	<5	<5
1,2-Dichloroethane	5	--	--	--
1,2-Dichloropropane	5	<5	<5	<5
1,4-Dichlorobenzene	75	<5	<5	<5
Benzene	5	<5	<5	<5
Carbon Tetrachloride	5	<5	<5	<5
Chlorobenzene	100	<5	<5	<5
cis 1,2-Dichloroethene	70	8	8	9
Iron (Dissolved)	--	0.31	0.03	<0.03
Iron (Total)	--	0.84	0.04	<0.03
Manganese (Dissolved)	--	<0.01	<0.01	<0.01
Manganese (Total)	--	<0.01	<0.01	<0.01
Methylene Chloride	5	<5	<5	<5
Tetrachloroethene	5	6	<5	6
trans 1,2-Dichloroethene	100	<5	<5	<5
Trichloroethene	5	8	11	11
Trichloromethane (Chloroform)	100	<5	<5	<5
Vinyl Chloride	2	<2	<2	<2

TABLE 2E
ABATEMENT MONITORING WELL SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

MW-1

Parameter	Cleanup	Level (ESD)	01/16/98	04/16/98	07/15/98	10/08/98	01/13/99	04/29/99	07/14/99	10/13/99
	01/16/98									
1,1,1-Trichloroethane	200	9	9	12	11	8	8	8	9	
1,1-Dichloroethane	27	15	14	19	15	16	17	16	17	
1,1-Dichloroethene	7	2	2	2	2	2	<5	<5	<5	
1,2-Dichloroethane	5	2	2	3	2	2	--	--	--	
1,2-Dichloropropane	5	2	2	3	2	2	<5	<5	<5	
1,4-Dichlorobenzene	75	1	0.7	0.9	1	1	<5	<5	<5	
Benzene	5	1	1	2	1	1	<5	<5	<5	
Carbon Tetrachloride	5	<0.5	<0.5	0.6	<1	<0.5	<5	<5	<5	
Chlorobenzene	100	2	1	2	2	2	<5	<5	<5	
cis 1,2-Dichloroethene	70	4	4	6	5	4	5	<5	<5	
Iron (Dissolved)	--	0.48	0.38	0.34	0.11	0.5	0.72	0.47	1	
Iron (Total)	--	5.25	8.03	11.1	23.3	9.71	11.6	2.7	6.18	
Manganese (Dissolved)	--	0.18	0.27	0.21	0.35	0.23	0.2	0.21	0.25	
Manganese (Total)	--	0.33	0.5	0.55	2.36	0.47	0.41	0.3	0.38	
Methylene Chloride	5	2	2	3	3	2	<5	<5	<5	
Tetrachloroethene	5	17	16	24	17	17	18	18	16	
trans 1,2-Dichloroethene	100	<0.5	<0.5	<0.5	<1	<0.5	<5	<5	<5	
Trichloroethene	5	4	4	6	5	5	5	5	5	
Trichloromethane (Chloroform)	100	3	3	4	4	3	<5	<5	<5	
Vinyl Chloride	2	2	2	3	2	2	3	2	2	

TABLE 2E
ABATEMENT MONITORING WELL SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

MW-1

ORIGINAL

	Cleanup									
Parameter	Level (ESD)	01/19/00	04/12/00	07/25/00	10/11/00	01/17/01	04/18/01	07/25/01	10/17/01	
1,1,1-Trichloroethane	200	8	10	10	9	8	6	7	8	
1,1-Dichloroethane	27	18	19	14	16	15	14	13	16	
1,1-Dichloroethene	7	<5	<5	<5	<5	<5	<5	<5	<5	
1,2-Dichloroethane	5	--	--	--	--	--	--	--	--	
1,2-Dichloropropane	5	<5	<5	<5	<5	<5	<5	<5	<5	
1,4-Dichlorobenzene	75	<5	<5	<5	<5	<5	<5	<5	<5	
Benzene	5	<5	<5	<5	<5	<5	<5	<5	<5	
Carbon Tetrachloride	5	<5	<5	<5	<5	<5	<5	<5	<5	
Chlorobenzene	100	<5	<5	<5	<5	<5	<5	<5	<5	
cis 1,2-Dichloroethene	70	<5	<5	<5	5	5	5	<5	6	
Iron (Dissolved)	--	0.61	0.34	1	1.07	0.83	1.07	0.81	1.09	
Iron (Total)	--	3.76	1.76	5.92	10.4	3.66	3.22	2.76	3.44	
Manganese (Dissolved)	--	0.16	0.13	0.21	0.14	0.15	0.13	0.15	0.14	
Manganese (Total)	--	0.23	0.19	0.3	0.21	0.21	0.16	0.19	0.19	
Methylene Chloride	5	<5	<5	<5	<5	<5	<5	<5	<5	
Tetrachloroethene	5	17	18	17	17	17	17	17	18	
trans 1,2-Dichloroethene	100	<5	<5	<5	<5	<5	<5	<5	<5	
Trichloroethene	5	<5	6	5	6	6	5	5	6	
Trichloromethane (Chloroform)	100	<5	<5	<5	<5	<5	<5	<5	<5	
Vinyl Chloride	2	2	2	<2	3	2	<2	<2	<2	

TABLE 2E
ABATEMENT MONITORING WELL SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

MW-1

Parameter	Cleanup	02/06/02	04/17/02	07/17/02	10/09/02
	Level (ESD)				
1,1,1-Trichloroethane	200	7	7	7	6
1,1-Dichloroethane	27	16	13	16	13
1,1-Dichloroethene	7	<5	<5	<5	<5
1,2-Dichloroethane	5	--	--	--	--
1,2-Dichloropropane	5	<5	<5	<5	<5
1,4-Dichlorobenzene	75	<5	<5	<5	<5
Benzene	5	<5	<5	<5	<5
Carbon Tetrachloride	5	<5	<5	<5	<5
Chlorobenzene	100	<5	<5	<5	<5
cis 1,2-Dichloroethene	70	<5	<5	<5	<5
Iron (Dissolved)	--	3.01	0.82	0.98	1.19
Iron (Total)	--	35.6	9.81	3.8	5.59
Manganese (Dissolved)	--	0.38	0.33	0.31	0.41
Manganese (Total)	--	0.71	0.59	0.37	0.54
Methylene Chloride	5	<5	<5	<5	<5
Tetrachloroethene	5	15	15	16	16
trans 1,2-Dichloroethene	100	<5	<5	<5	<5
Trichloroethene	5	6	<5	5	<5
Trichloromethane (Chloroform)	100	<5	<5	<5	<5
Vinyl Chloride	2	2	<2	2	<2

TABLE 2F
ABATEMENT MONITORING WELL SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

MW-2

	Cleanup								
Parameter	Level (ESD)	01/16/98	04/16/98	07/15/98	10/08/98	01/14/99	04/29/99	07/14/99	10/14/99
1,1,1-Trichloroethane	200	<0.5	<0.5	<0.5	<1	<0.5	<5	<5	<5
1,1-Dichloroethane	27	<0.5	<0.5	<0.5	<1	<0.5	<5	<5	<5
1,1-Dichloroethene	7	<0.5	<0.5	<0.5	<1	<0.5	<5	<5	<5
1,2-Dichloroethane	5	0.5	<0.5	0.6	2	0.8	--	--	--
1,2-Dichloropropane	5	<0.5	<0.5	<0.5	<1	<0.5	<5	<5	<5
1,4-Dichlorobenzene	75	<0.5	<0.5	<0.5	<1	<0.5	<5	<5	<5
Benzene	5	<0.5	<0.5	<0.5	<1	<0.5	<5	<5	<5
Carbon Tetrachloride	5	<0.5	<0.5	<0.5	<1	<0.5	<5	<5	<5
Chlorobenzene	100	<0.5	<0.5	<0.5	<1	<0.5	<5	<5	<5
cis 1,2-Dichloroethene	70	<0.5	<0.5	<0.5	<1	<0.5	<5	<5	<5
Iron (Dissolved)	--	0.23	0.17	0.17	0.09	<0.05	0.13	<0.05	<0.03
Iron (Total)	--	0.44	0.43	0.64	0.22	0.1	0.31	0.4	0.1
Manganese (Dissolved)	--	0.05	0.04	0.02	<0.01	0.02	0.03	0.01	0.05
Manganese (Total)	--	0.05	0.04	0.05	<0.01	0.03	0.04	0.02	0.05
Methylene Chloride	5	<0.5	<0.5	<0.5	1	<0.5	<5	<5	<5
Tetrachloroethene	5	<0.5	<0.5	<0.5	<1	<0.5	<5	<5	<5
trans 1,2-Dichloroethene	100	<0.5	<0.5	<0.5	<1	<0.5	<5	<5	<5
Trichloroethene	5	<0.5	<0.5	<0.5	<1	<0.5	<5	<5	<5
Trichloromethane (Chloroform)	100	<0.5	<0.5	<0.5	<1	<0.5	<5	<5	<5
Vinyl Chloride	2	<0.5	<0.5	<0.5	<1	<0.5	<2	<2	<2

TABLE 2F
ABATEMENT MONITORING WELL SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

MW-2

Parameter	Cleanup									
		Level (ESD)	01/19/00	04/12/00	07/25/00	10/12/00	01/17/01	04/19/01	07/26/01	10/18/01
1,1,1-Trichloroethane	200	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	27	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	7	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	5	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,4-Dichlorobenzene	75	<5	<5	<5	<5	<5	<5	<5	<5	<5
Benzene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Carbon Tetrachloride	5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	100	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis 1,2-Dichloroethene	70	<5	<5	<5	<5	<5	<5	<5	<5	<5
Iron (Dissolved)	--	0.05	<0.03	<0.03	0.06	<0.03	<0.03	<0.03	<0.03	0.08
Iron (Total)	--	1.03	0.09	0.15	0.12	0.03	0.12	0.03	0.03	0.09
Manganese (Dissolved)	--	0.02	0.02	0.01	0.01	<0.01	0.02	0.24	0.01	
Manganese (Total)	--	0.08	0.02	0.02	0.02	<0.01	0.02	0.25	0.01	
Methylene Chloride	5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Tetrachloroethene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans 1,2-Dichloroethene	100	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloromethane (Chloroform)	100	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	2	<2	<2	<2	<2	<2	<2	<2	<2	<2

TABLE 2F
ABATEMENT MONITORING WELL SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

MW-2

Parameter	Cleanup Level (ESD)				
		02/07/02	04/17/02	07/18/02	10/10/02
1,1,1-Trichloroethane	200	<5	<5	<5	<5
1,1-Dichloroethane	27	<5	<5	<5	<5
1,1-Dichloroethene	7	<5	<5	<5	<5
1,2-Dichloroethane	5	--	--	--	--
1,2-Dichloropropane	5	<5	<5	<5	<5
1,4-Dichlorobenzene	75	<5	<5	<5	<5
Benzene	5	<5	<5	<5	<5
Carbon Tetrachloride	5	<5	<5	<5	<5
Chlorobenzene	100	<5	<5	<5	<5
cis 1,2-Dichloroethene	70	<5	<5	<5	<5
Iron (Dissolved)	--	<0.03	0.03	<0.03	0.13
Iron (Total)	--	<0.03	0.18	0.18	0.15
Manganese (Dissolved)	--	0.03	0.05	0.87	0.58
Manganese (Total)	--	0.03	0.06	0.89	0.58
Methylene Chloride	5	<5	<5	<5	<5
Tetrachloroethene	5	<5	<5	<5	<5
trans 1,2-Dichloroethene	100	<5	<5	<5	<5
Trichloroethene	5	<5	<5	<5	<5
Trichloromethane (Chloroform)	100	<5	<5	<5	<5
Vinyl Chloride	2	<2	<2	<2	<2

TABLE 2G
ABATEMENT MONITORING WELL SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

MW-9

	Cleanup										
Parameter	Level (ESD)	01/15/98	07/15/98	10/08/98	01/13/99	04/29/99	07/14/99	10/13/99	04/12/00	07/25/00	
1,1,1-Trichloroethane	200	8	9	9	6	6	5	5	6	5	
1,1-Dichloroethane	27	21	25	20	20	22	18	19	20	15	
1,1-Dichloroethene	7	4	5	4	3	<5	<5	<5	<5	<5	
1,2-Dichloroethane	5	1	1	1	1	--	--	--	--	--	
1,2-Dichloropropane	5	1	1	1	1	<5	<5	<5	<5	<5	
1,4-Dichlorobenzene	75	1	1	1	1	<5	<5	<5	<5	<5	
Benzene	5	1	1	1	1	<5	<5	<5	<5	<5	
Carbon Tetrachloride	5	1	1	1	1	<5	<5	<5	<5	<5	
Chlorobenzene	100	41	59	65	43	50	36	32	38	37	
cis 1,2-Dichloroethene	70	6	9	8	6	8	7	7	8	7	
Iron (Dissolved)	--	0.33	0.32	0.82	0.57	<0.05	<0.05	0.09	0.05	0.06	
Iron (Total)	--	1.19	7.96	14.40	31.50	0.06	<0.05	0.10	0.11	0.25	
Manganese (Dissolved)	--	3.31	3.36	3.23	3.04	3.32	2.97	2.67	2.64	2.35	
Manganese (Total)	--	3.47	3.46	3.34	3.19	3.35	3.01	2.78	2.68	2.37	
Methylene Chloride	5	<0.5	<0.5	<1	<0.5	<5	<5	<5	<5	<5	
Tetrachloroethene	5	4	5	4	4	5	5	6	7	5	
trans 1,2-Dichloroethene	100	<1	<1	<1	<1	<5	<5	<5	<5	<5	
Trichloroethene	5	13	18	15	12	14	12	12	12	12	
Trichloromethane (Chloroform)	100	1	2	1	1	<5	<5	<5	<5	<5	
Vinyl Chloride	2	1	1	<1	1	<2	<2	<2	<2	<2	

ORIGINAL

TABLE 2G
ABATEMENT MONITORING WELL SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

MW-9

	Cleanup										
Parameter	Level (ESD)	10/11/00	01/17/00	04/18/01	07/25/01	10/17/01	02/06/02	04/17/02	07/18/02	10/31/02	
1,1,1-Trichloroethane	200	<5	<5	<5	<5	5	<5	<5	<5	<5	
1,1-Dichloroethane	27	16	13	20	15	15	12	9	14	9	
1,1-Dichloroethene	7	<5	<5	<5	<5	<5	<5	<5	<5	<5	
1,2-Dichloroethane	5	--	--	--	--	--	--	--	--	--	
1,2-Dichloropropane	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
1,4-Dichlorobenzene	75	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Benzene	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Carbon Tetrachloride	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Chlorobenzene	100	24	12	29	25	32	15	10	17	7	
cis 1,2-Dichloroethene	70	7	6	7	7	7	6	<5	6	<5	
Iron (Dissolved)	--	<0.03	<0.03	<0.03	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
Iron (Total)	--	0.06	0.03	<0.03	0.04	0.08	<0.03	<0.03	<0.03	<0.03	
Manganese (Dissolved)	--	2.04	1.63	2.11	2.08	1.92	1.61	1.51	1.74	1.21	
Manganese (Total)	--	2.08	1.66	2.13	2.07	2.01	1.78	1.53	1.74	1.20	
Methylene Chloride	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Tetrachloroethene	5	<5	<5	7	7	<5	8	6	6	7	
trans 1,2-Dichloroethene	100	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Trichloroethene	5	11	9	11	10	11	8	5	8	5	
Trichloromethane (Chloroform)	100	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Vinyl Chloride	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	

ORIGINAL

TABLE 2H
ABATEMENT MONITORING WELL SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

PZ-3

Parameter	Cleanup	01/15/98	04/16/98	07/15/98	10/08/98	01/13/99	04/29/99	07/14/99	10/14/99
	Level (ESD)								
1,1,1-Trichloroethane	200	3	3	4	4	3	<5	<5	<5
1,1-Dichloroethane	27	15	14	18	15	15	20	15	14
1,1-Dichloroethene	7	1	1	1	1	1	<5	<5	<5
1,2-Dichloroethane	5	1	1	1	<1	1	--	--	--
1,2-Dichloropropane	5	1	1	2	1	1	<5	<5	<5
1,4-Dichlorobenzene	75	<1	<1	<1	<1	<1	<5	<5	<5
Benzene	5	<1	<1	<1	<1	<1	<5	<5	<5
Carbon Tetrachloride	5	<1	<1	<1	<1	<1	<5	<5	<5
Chlorobenzene	100	<1	<1	<1	<1	<1	<5	<5	<5
cis 1,2-Dichloroethene	70	14	15	21	18	14	19	15	14
Iron (Dissolved)	--	<0	<0	<0	0	<0	0	<0	<0
Iron (Total)	--	0	1	1	0	<0	0	0	0
Manganese (Dissolved)	--	<0	<0	<0	<0	<0	<0	<0	<0
Manganese (Total)	--	<0	<0	0	<0	<0	0	<0	<0
Methylene Chloride	5	1	2	<1	<1	<1	<5	<5	<5
Tetrachloroethene	5	3	3	4	3	3	<5	<5	<5
trans 1,2-Dichloroethene	100	<1	<1	<1	<1	<1	<5	<5	<5
Trichloroethene	5	7	7	9	7	7	10	8	7
Trichloromethane (Chloroform)	100	<1	<1	<1	<1	<1	<5	<5	<5
Vinyl Chloride	2	1	1	<1	<1	<1	<2	<2	<2

TABLE 2H
ABATEMENT MONITORING WELL SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

PZ-3

	Cleanup								
Parameter	Level (ESD)	01/19/00	04/12/00	07/25/00	10/12/00	01/17/01	04/18/01	07/26/01	10/17/01
1,1,1-Trichloroethane	200	<5	<5	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	27	15	12	11	11	12	9	11	13
1,1-Dichloroethene	7	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	5	--	--	--	--	--	--	--	--
1,2-Dichloropropane	5	<5	<5	<5	<5	<5	<5	<5	<5
1,4-Dichlorobenzene	75	<5	<5	<5	<5	<5	<5	<5	<5
Benzene	5	<5	<5	<5	<5	<5	<5	<5	<5
Carbon Tetrachloride	5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorobenzene	100	<5	<5	<5	<5	<5	<5	<5	<5
cis 1,2-Dichloroethene	70	14	12	14	12	13	11	11	14
Iron (Dissolved)	--	<0	0	<0	<0	<0	0	<0	<0
Iron (Total)	--	0	0	<0	0	<0	0	0	0
Manganese (Dissolved)	--	<0	<0	<0	<0	<0	<0	<0	<0
Manganese (Total)	--	<0	<0	<0	<0	<0	<0	<0	0
Methylene Chloride	5	<5	<5	<5	<5	<5	<5	<5	<5
Tetrachloroethene	5	<5	<5	<5	<5	<5	<5	<5	<5
trans 1,2-Dichloroethene	100	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene	5	7	6	8	6	7	6	6	8
Trichloromethane (Chloroform)	100	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	2	<2	<2	<2	<2	<2	<2	<2	<2

TABLE 2H
ABATEMENT MONITORING WELL SUMMARY
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

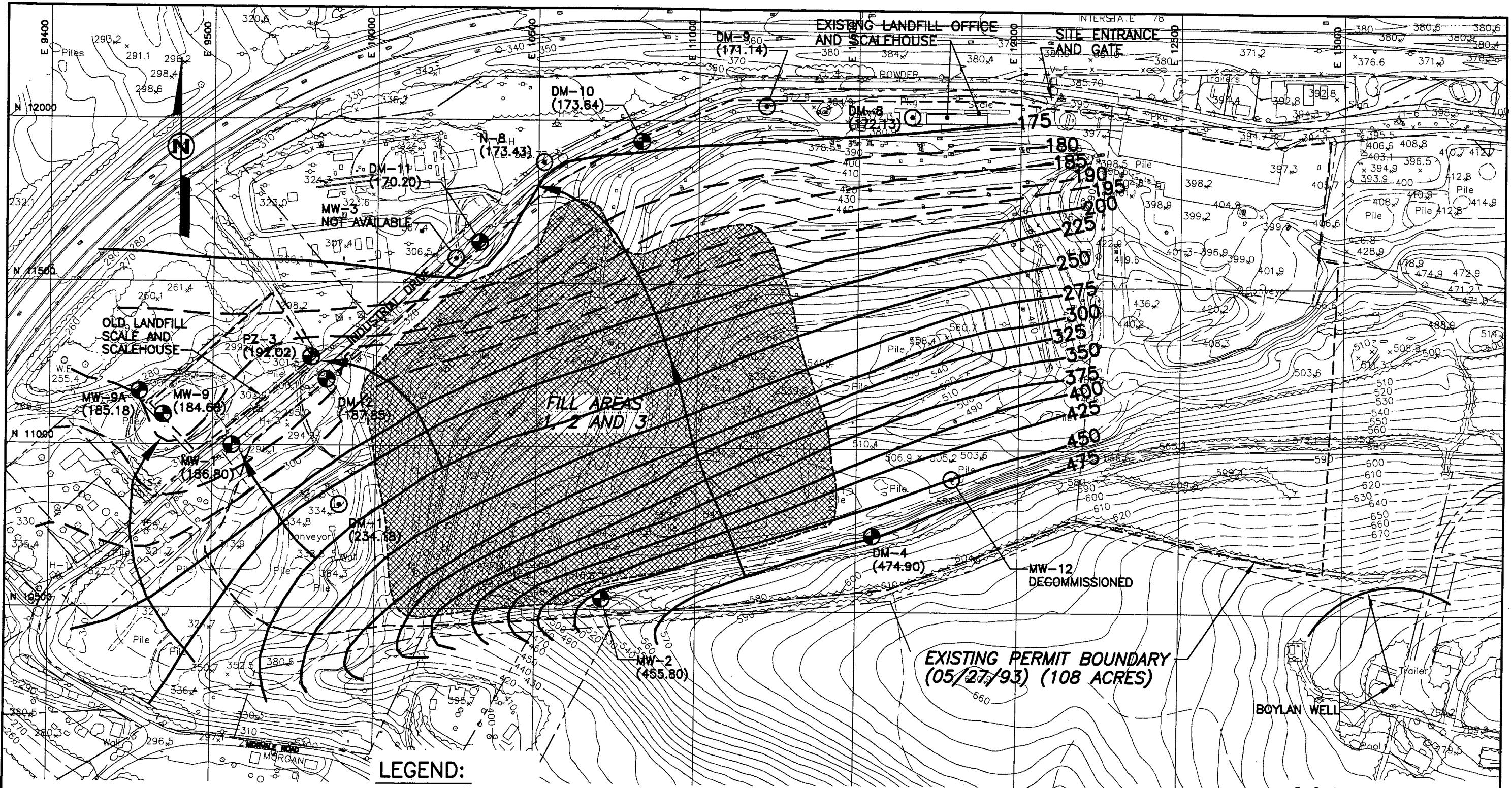
PZ-3

Parameter	Cleanup	02/06/02	04/17/02	07/17/02	10/09/02
	Level (ESD)				
1,1,1-Trichloroethane	200	<5	<5	<5	<5
1,1-Dichloroethane	27	10	9	9	9
1,1-Dichloroethene	7	<5	<5	<5	<5
1,2-Dichloroethane	5	--	--	--	--
1,2-Dichloropropane	5	<5	<5	<5	<5
1,4-Dichlorobenzene	75	<5	<5	<5	<5
Benzene	5	<5	<5	<5	<5
Carbon Tetrachloride	5	<5	<5	<5	<5
Chlorobenzene	100	<5	<5	<5	<5
cis 1,2-Dichloroethene	70	11	9	9	9
Iron (Dissolved)	--	<0	<0	<0	<0
Iron (Total)	--	<0	0	0	<0
Manganese (Dissolved)	--	<0	<0	<0	<0
Manganese (Total)	--	<0	<0	<0	<0
Methylene Chloride	5	<5	<5	<5	<5
Tetrachloroethene	5	<5	<5	<5	<5
trans 1,2-Dichloroethene	100	<5	<5	<5	<5
Trichloroethene	5	5	<5	<5	5
Trichloromethane (Chloroform)	100	<5	<5	<5	<5
Vinyl Chloride	2	<2	<2	<2	<2

ORIGINAL

ORIGINAL

FIGURES



REFERENCE:

1. TOPOGRAPHY PREPARED BY L. ROBERT KIMBALL AND ASSOCIATES, INC., COMPILED BY STEREOGRAPHIC METHODS UPDATED 01/24/03.
2. AGES DRAWING NO. 47072-E-114 REV. 6, DATED 11/01/90 AND ALMES DRAWING NO. PA43-P83, SUBMITTED JUNE 1991.

● DM-2 (187.85)
○ DM-9 (171.14)

EXISTING ABATEMENT ZONE GROUNDWATER MONITORING WELL WITH GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
EXISTING NON-ABATEMENT ZONE MONITORING WELL WITH GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL

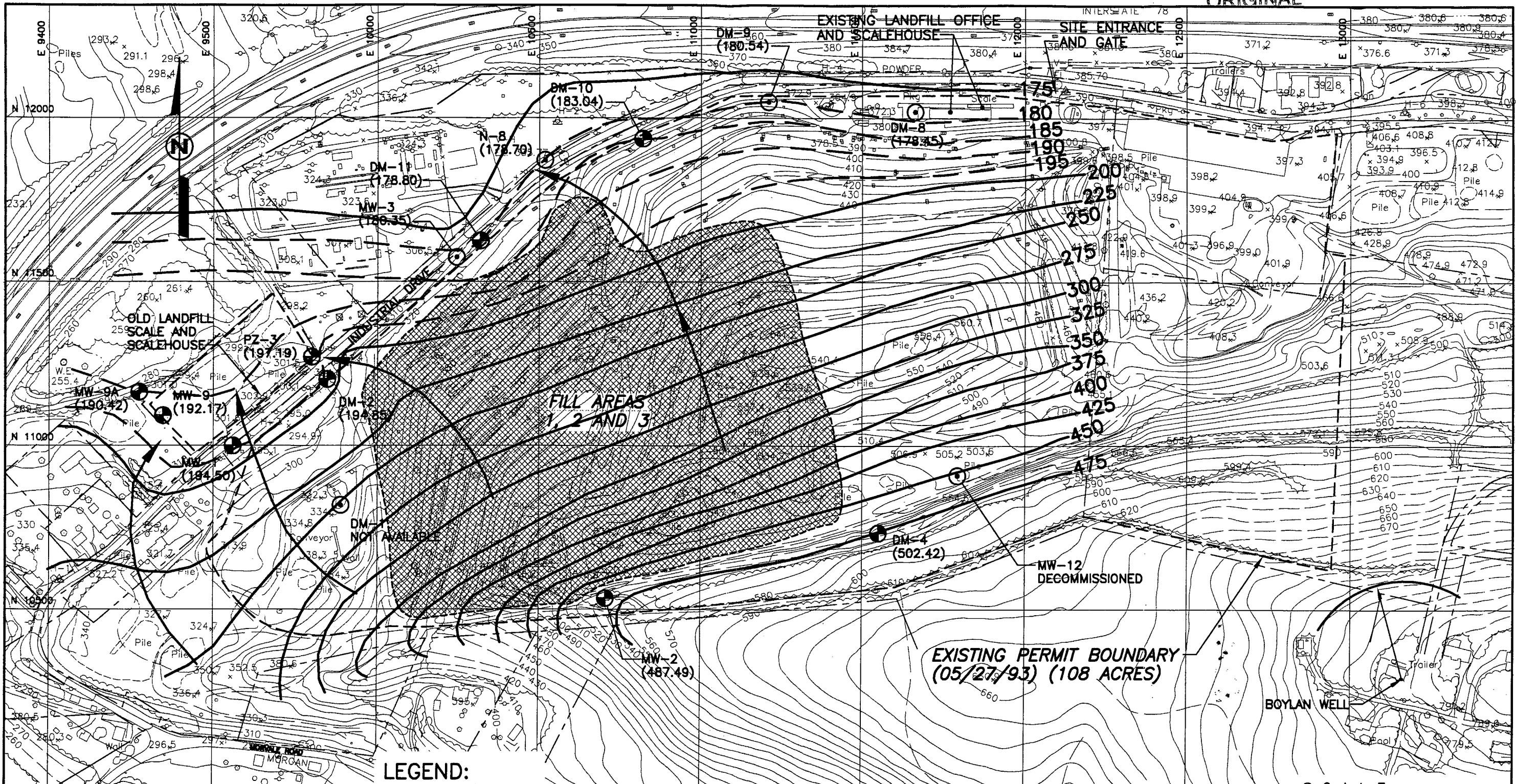
Civil & Environmental Consultants, Inc.
EXPORT, PA PITTSBURGH, PA
(724) 327-5200 • (412) 429-2324
Cincinnati, OH • Columbus, OH • Indianapolis, IN • Nashville, TN

DWN. BY: JHG	SCALE: AS SHOWN	DATE: 09/16/03
CHKD. BY: RCD		

POTENTIOMETRIC CONTOUR MAP
LOW WATER TABLE CONDITIONS
MARCH 7, 2002
CHRIN BROTHERS SANITARY LANDFILL

PROJECT NO.: 230837	FIGURE NO. 1
---------------------	--------------

ORIGINAL

**REFERENCE:**

1. TOPOGRAPHY PREPARED BY L. ROBERT KIMBALL AND ASSOCIATES, INC., COMPILED BY STEREOGRAPHIC METHODS UPDATED 01/24/03.
2. AGES DRAWING NO. 47072-E-114 REV. 6, DATED 11/01/90 AND ALMES DRAWING NO. PA43-P83, SUBMITTED JUNE 1991.

DM-2
(194.85)MW-3
(180.35)

EXISTING ABATEMENT ZONE GROUNDWATER MONITORING WELL WITH GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL

EXISTING NON-ABATEMENT ZONE MONITORING WELL WITH GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL

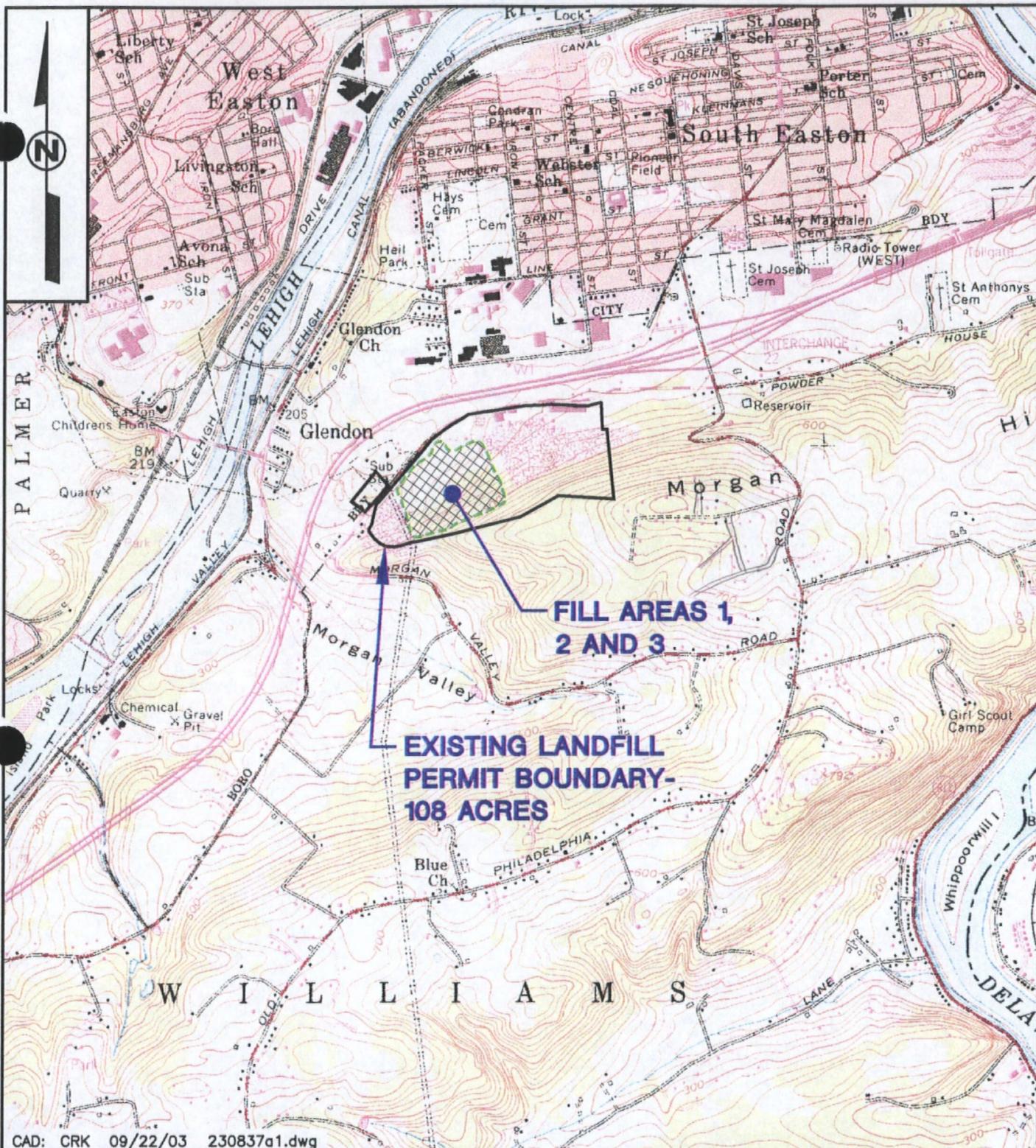
Civil & Environmental Consultants, Inc. EXPORT, PA • PITTSBURGH, PA (724) 327-5200 • (412) 429-2324 Cincinnati, OH • Columbus, OH • Indianapolis, IN • Nashville, TN		
DWN. BY: JHG	SCALE: AS SHOWN	DATE: 09/16/03
CHKD. BY: RCD		PROJECT NO: 230837

POTENIOMETRIC CONTOUR MAP
HIGH WATER TABLE CONDITIONS
MARCH 3, 2002
CHRIN BROTHERS SANITARY LANDFILL

FIGURE NO. 2

CAD: JHG 09/16/03 230837B2.DWG

ORIGINAL



REFERENCE

U.S.G.S. 7.5 MINUTE TOPOGRAPHIC
QUADRANGLE MAP OF EASTON, NJ-PA,
DATED 1956, REVISED 1994.

SCALE

2000 0 2000 FT.



Civil & Environmental Consultants, Inc.

EXPORT, PA PITTSBURGH, PA

(724) 327-5200 • (412) 429-2324

Cincinnati, OH • Columbus, OH • Indianapolis, IN • Nashville, TN

DWN. BY: JHG

SCALE:
1"=2000'

DATE:
09/22/03

U.S.G.S. SITE LOCATION MAP
CHRIN SANITARY LANDFILL
CHRIN BROTHERS, INC.
NORTHAMPTON COUNTY, PA

CHKD. BY: *RCA*

PROJECT NO.:
230837

FIGURE:

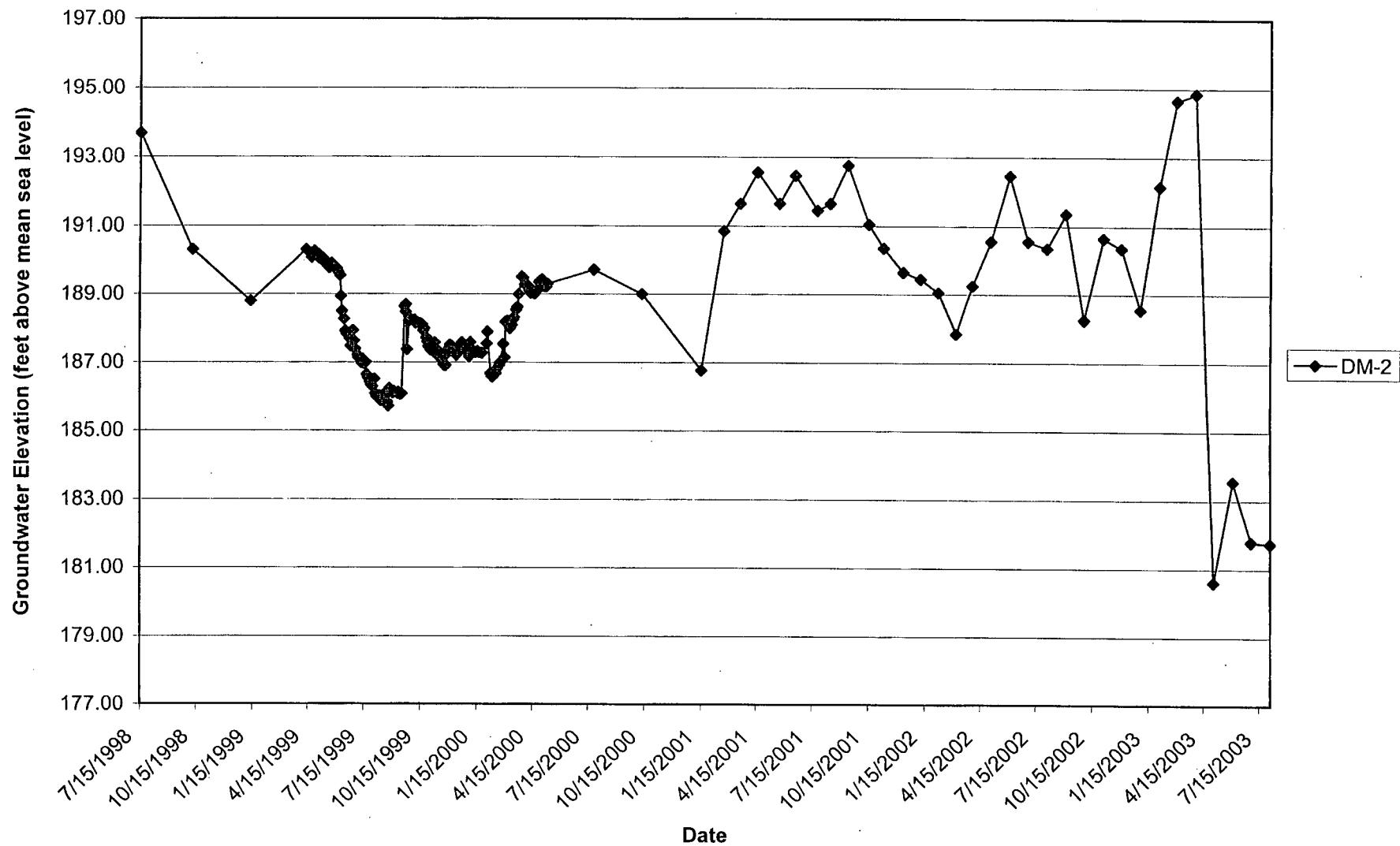
3

ORIGINAL

APPENDIX A
HYDROGRAPHS

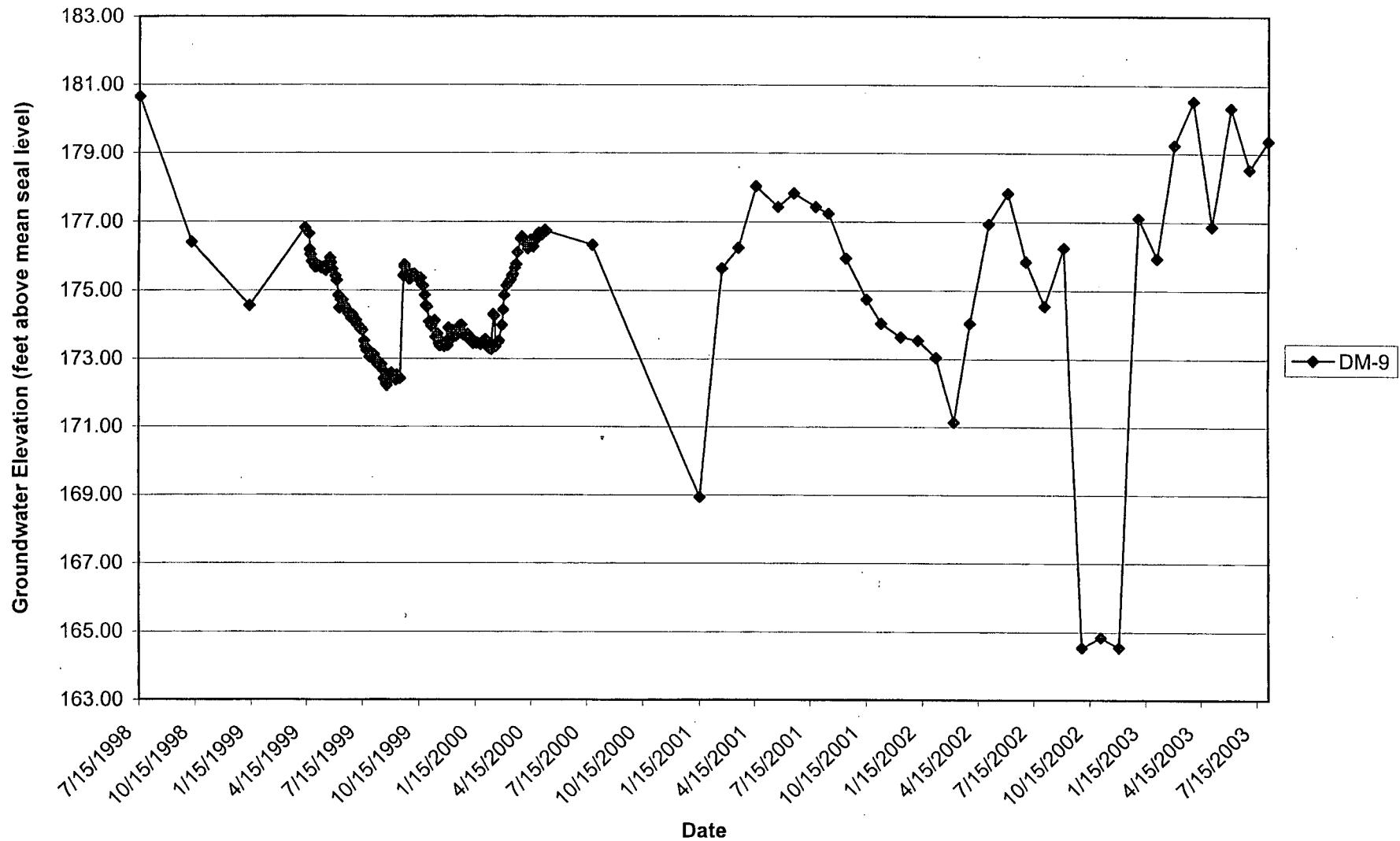
DM-2 Hydrograph

ORIGINAL



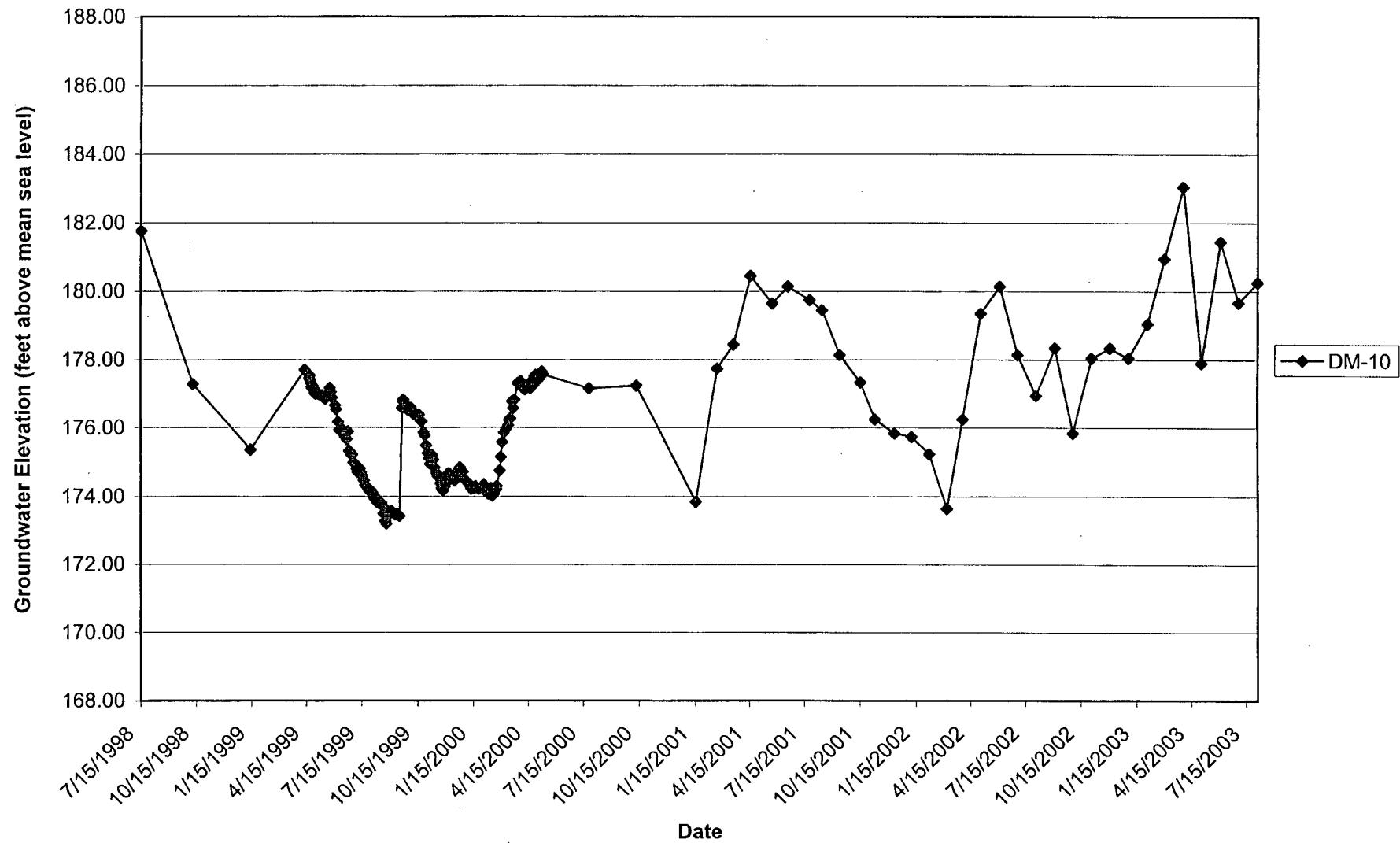
DM-9 Hydrograph

ORIGINAL



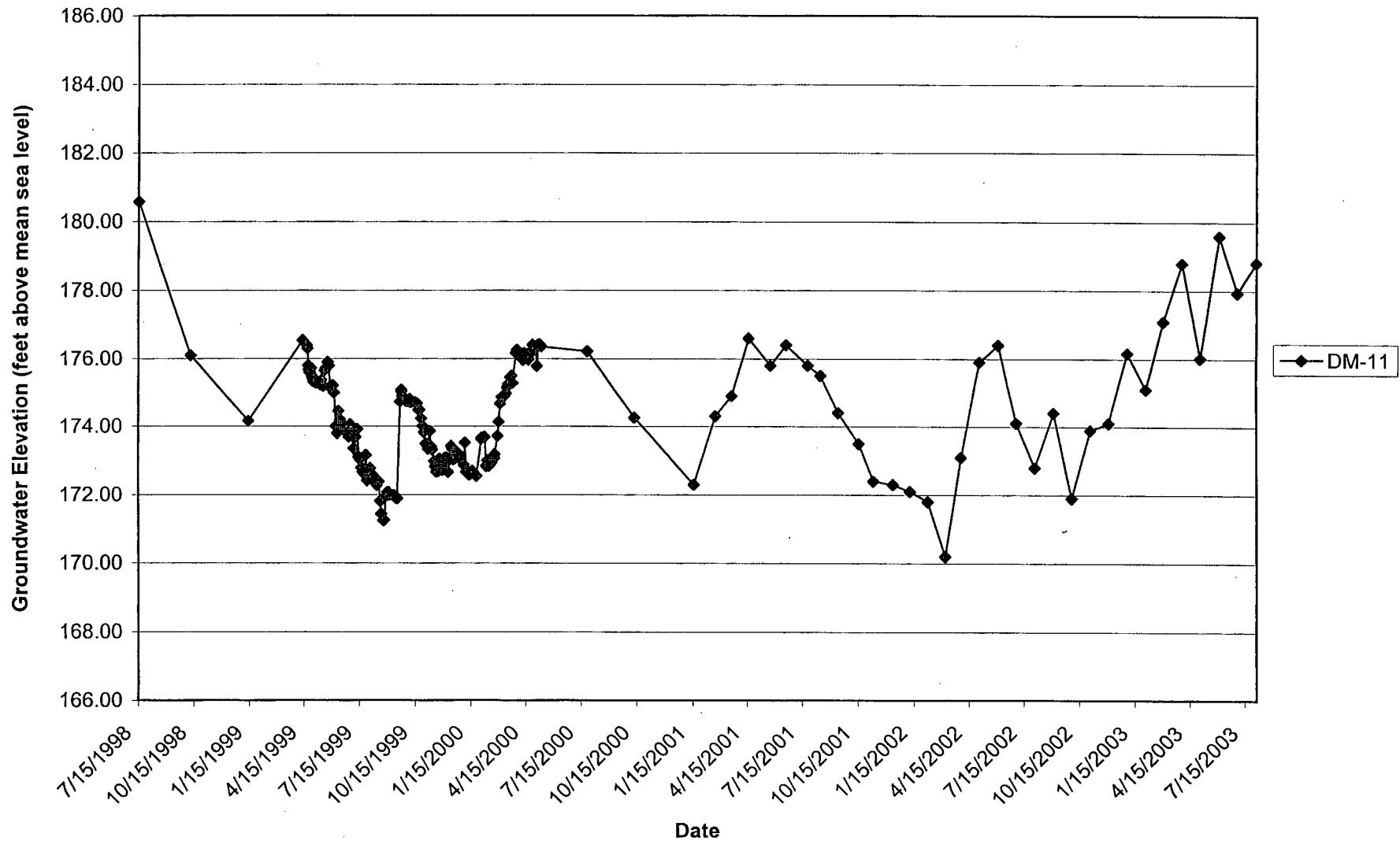
ORIGINAL

DM-10 Hydrograph



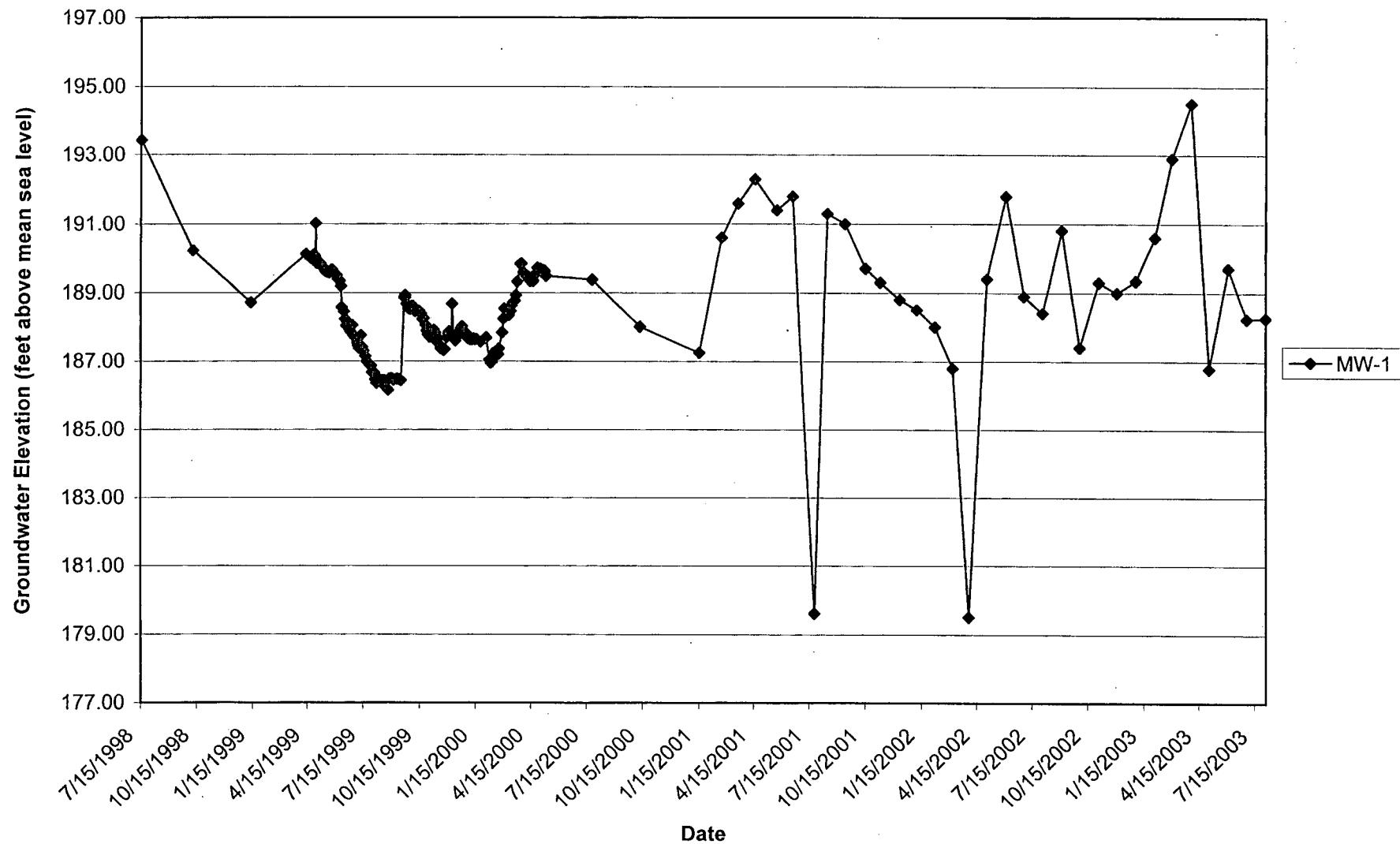
DM-11 Hydrograph

ORIGINAL



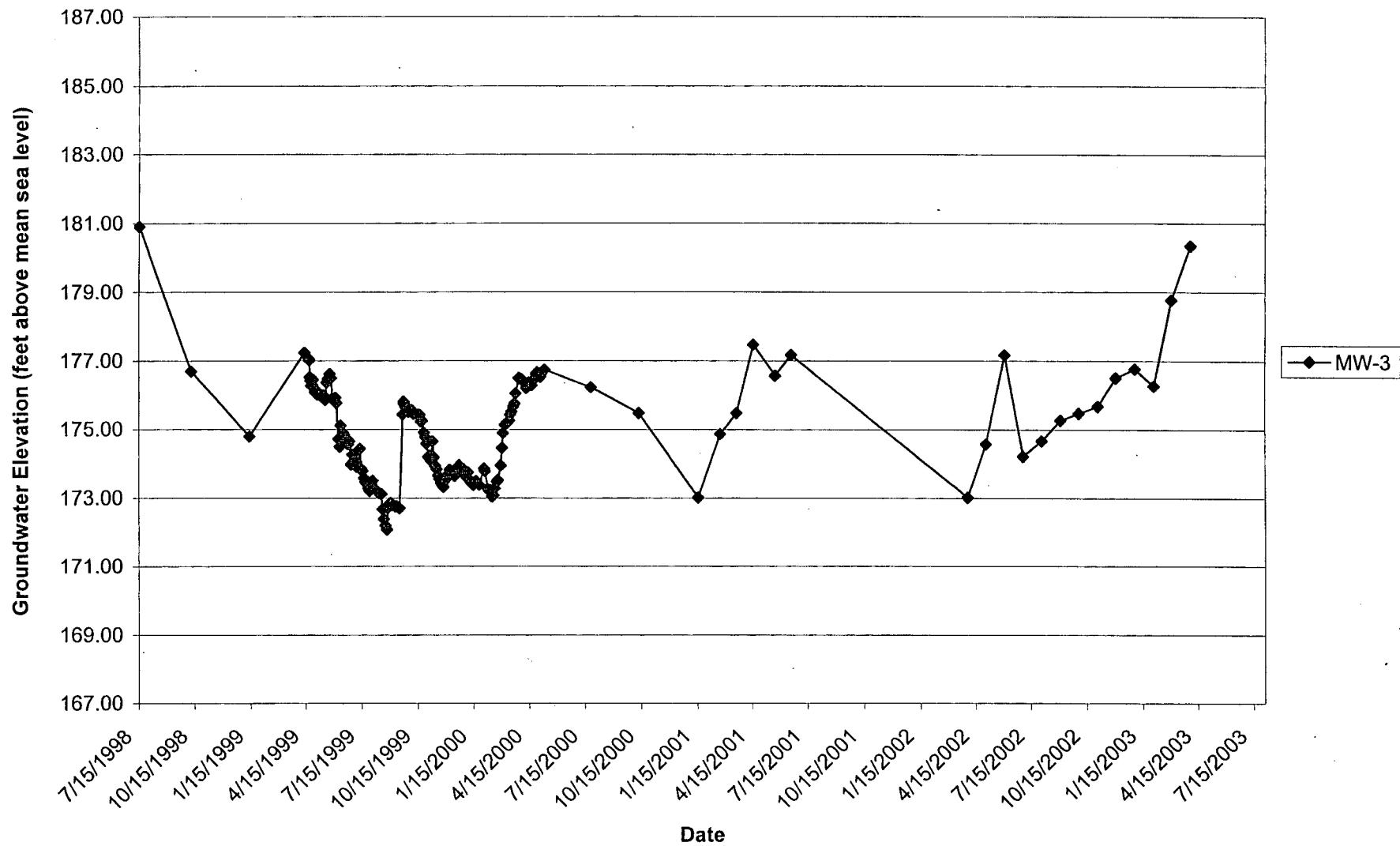
ORIGINAL

MW-1 Hydrograph



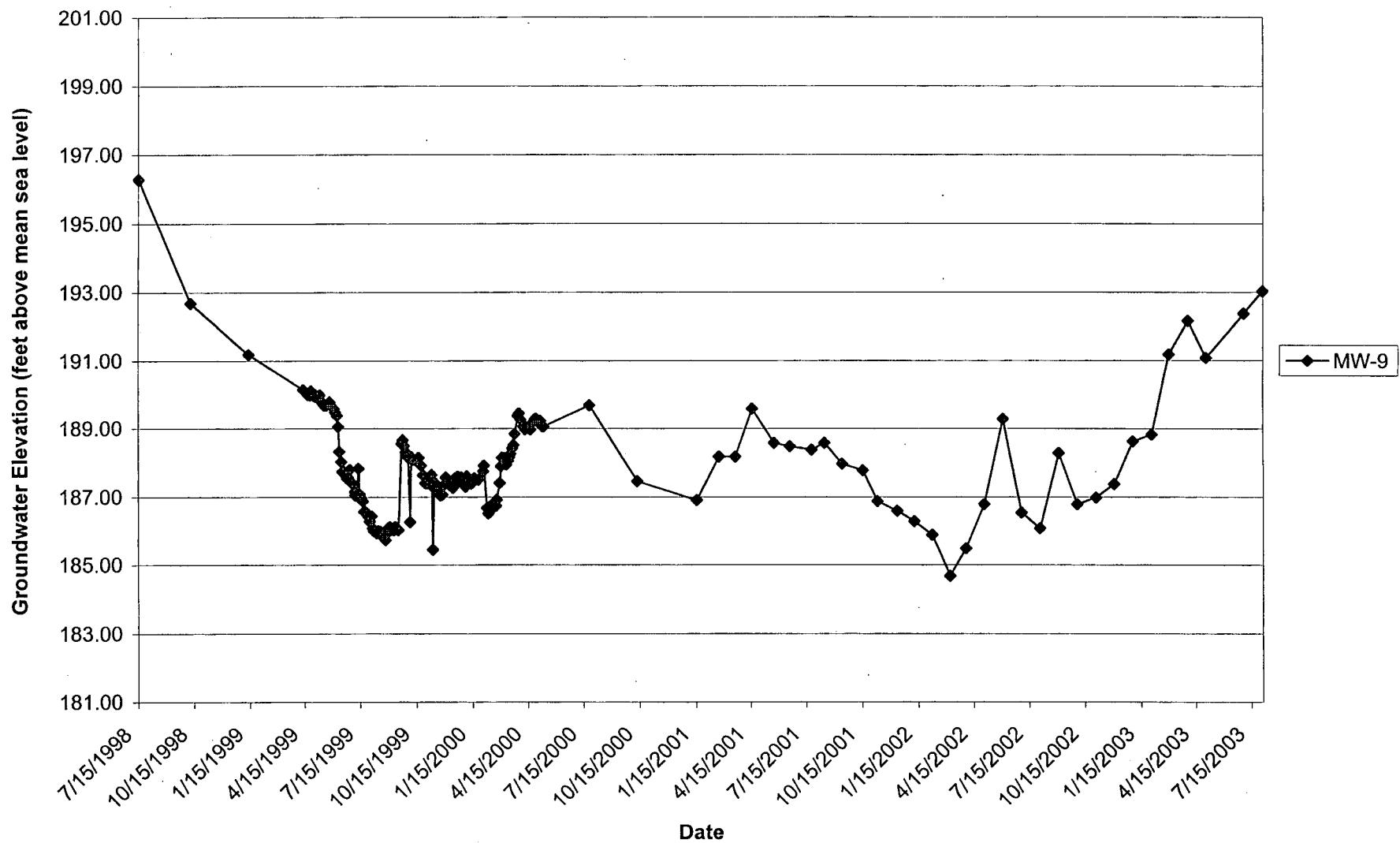
MW-3 Hydrograph

ORIGINAL



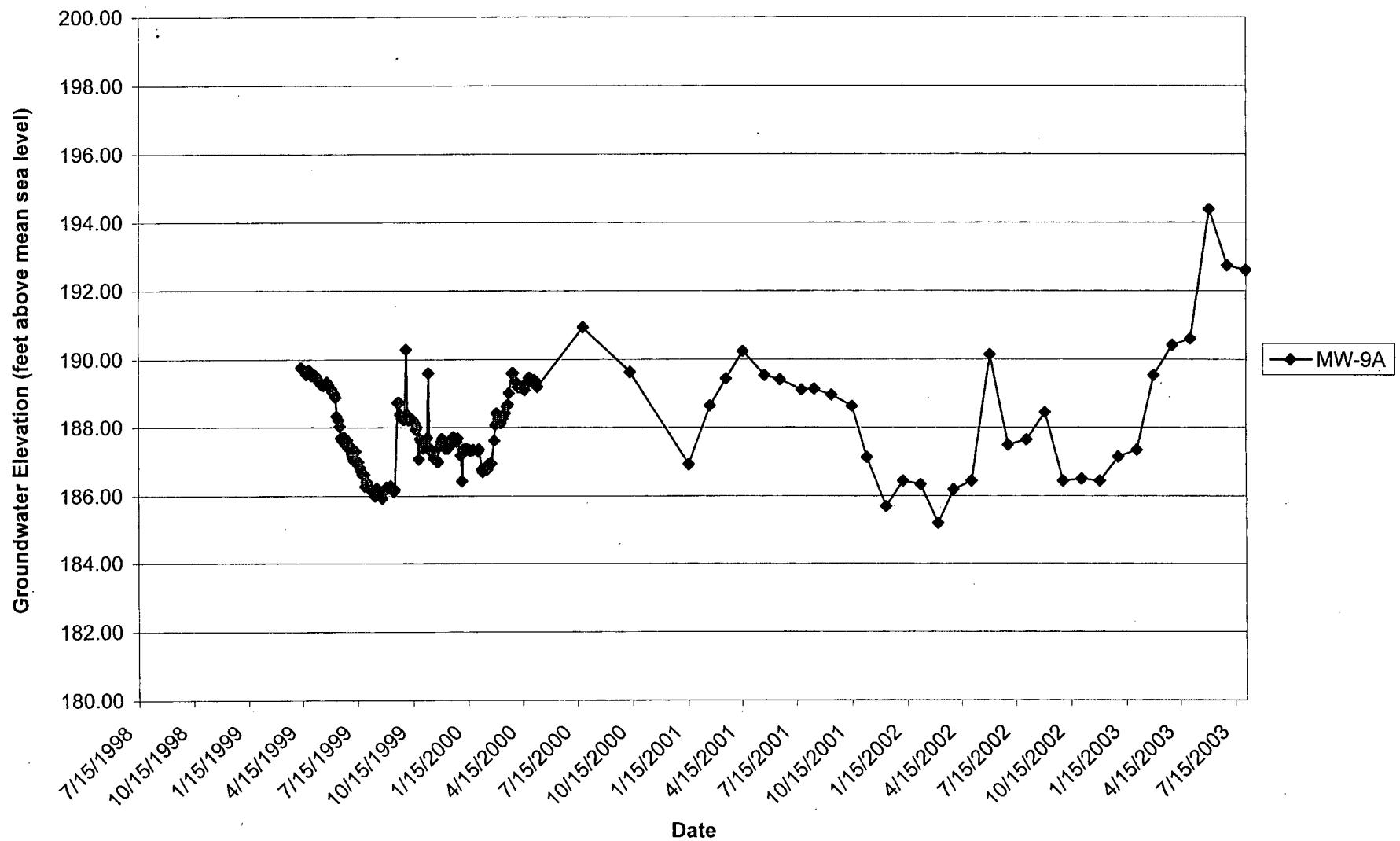
ORIGINAL

MW-9 Hydrograph



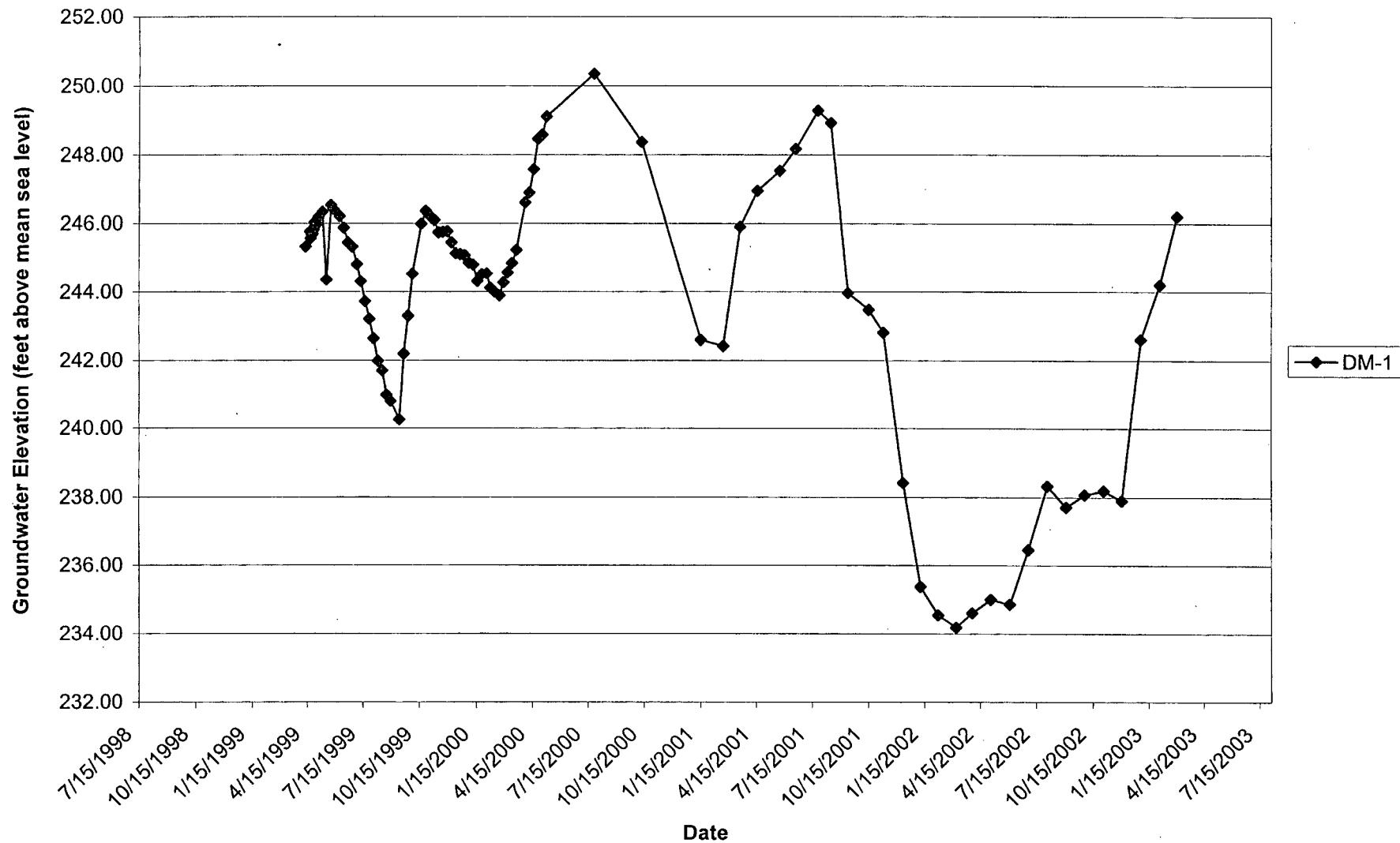
ORIGINAL

MW-9A Hydrograph



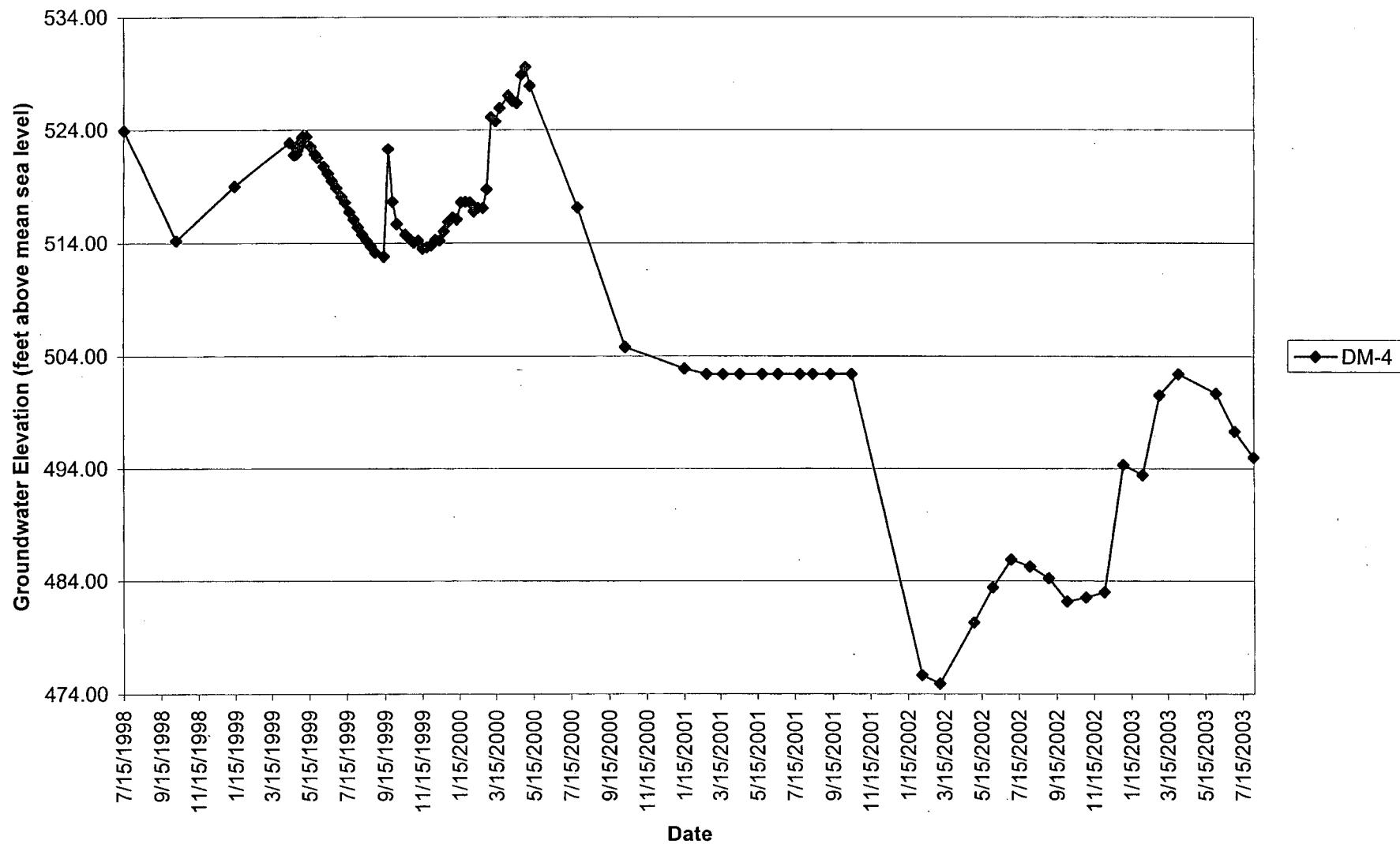
DM-1 Hydrograph

ORIGINAL



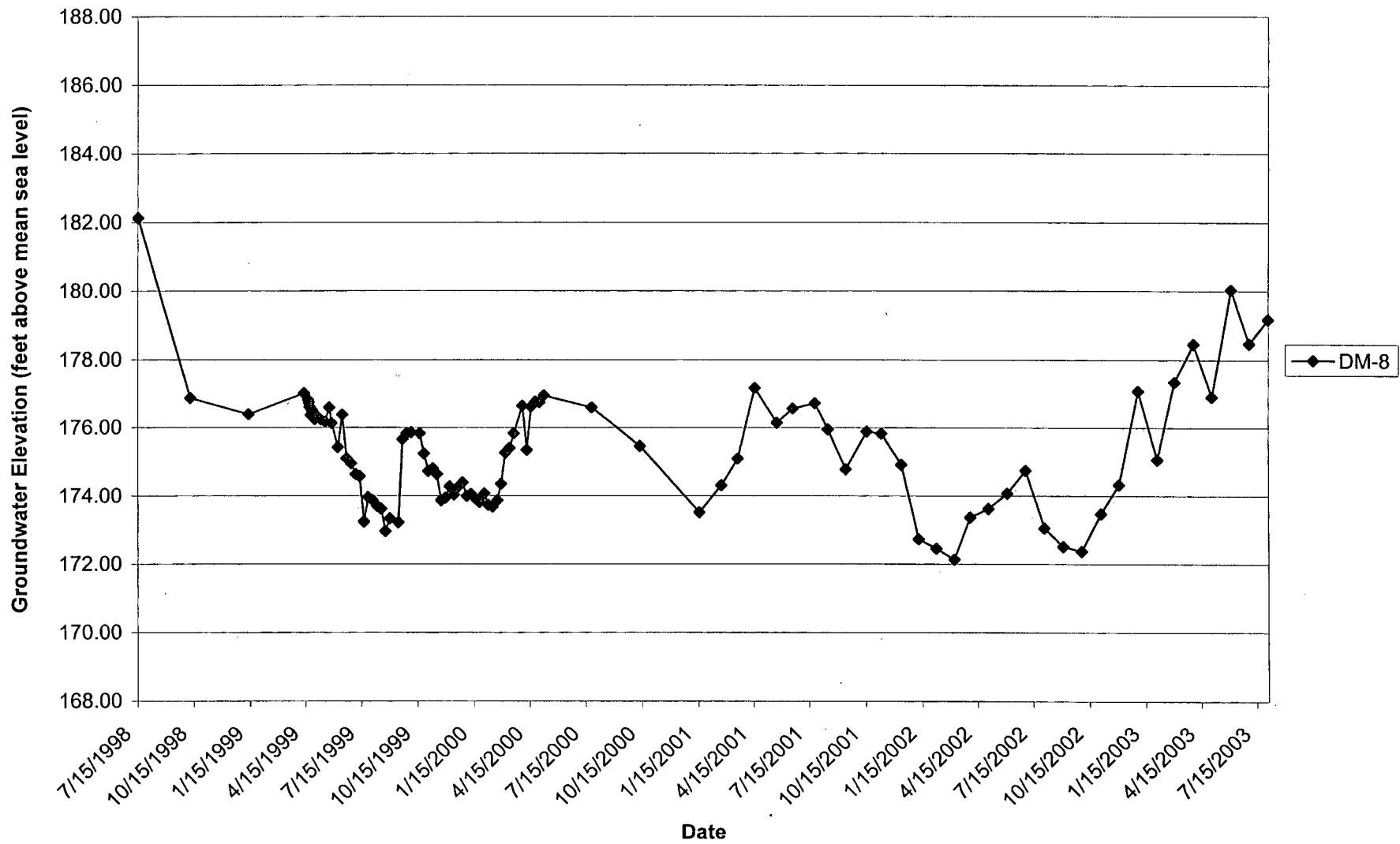
ORIGINAL

DM-4 Hydrograph



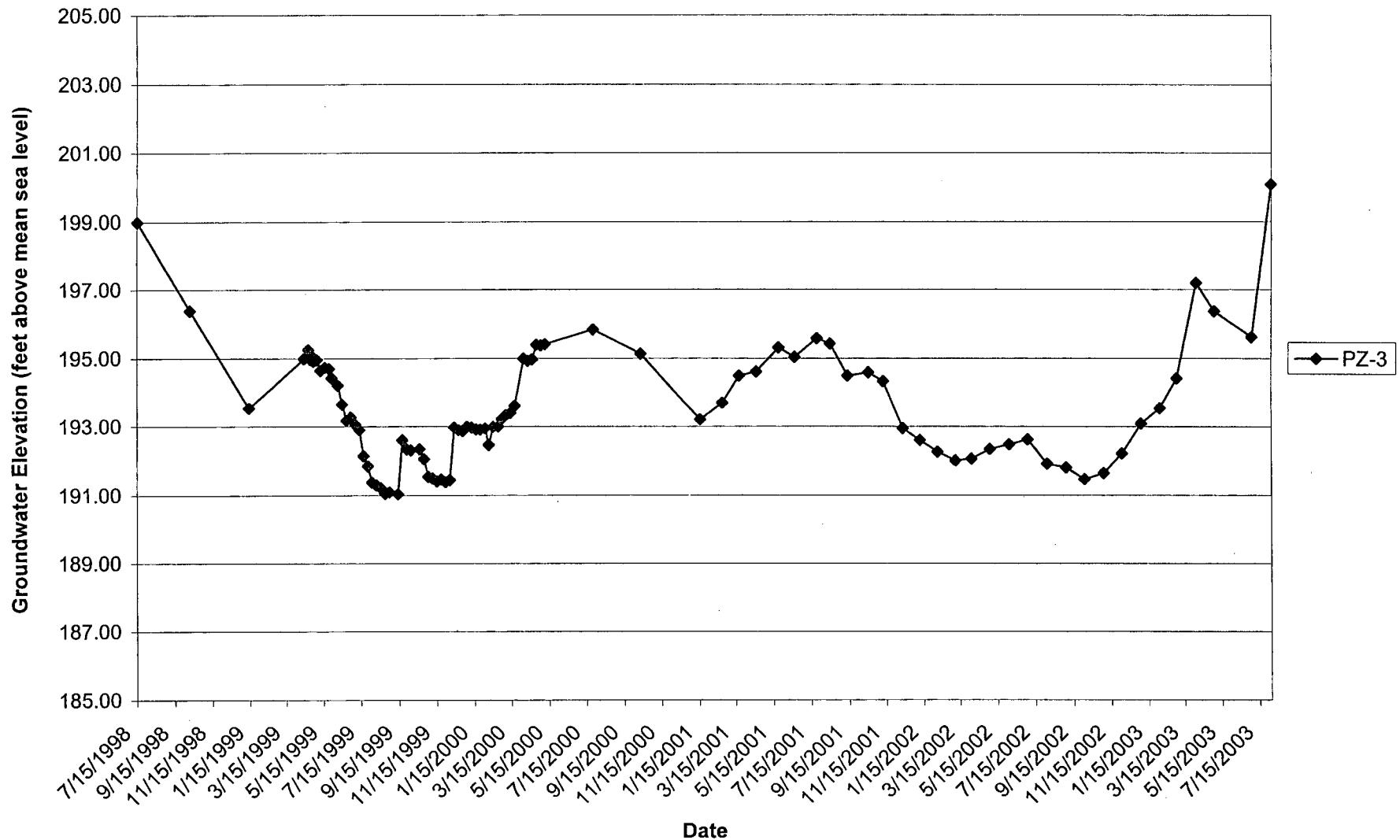
DM-8 Hydrograph

ORIGINAL

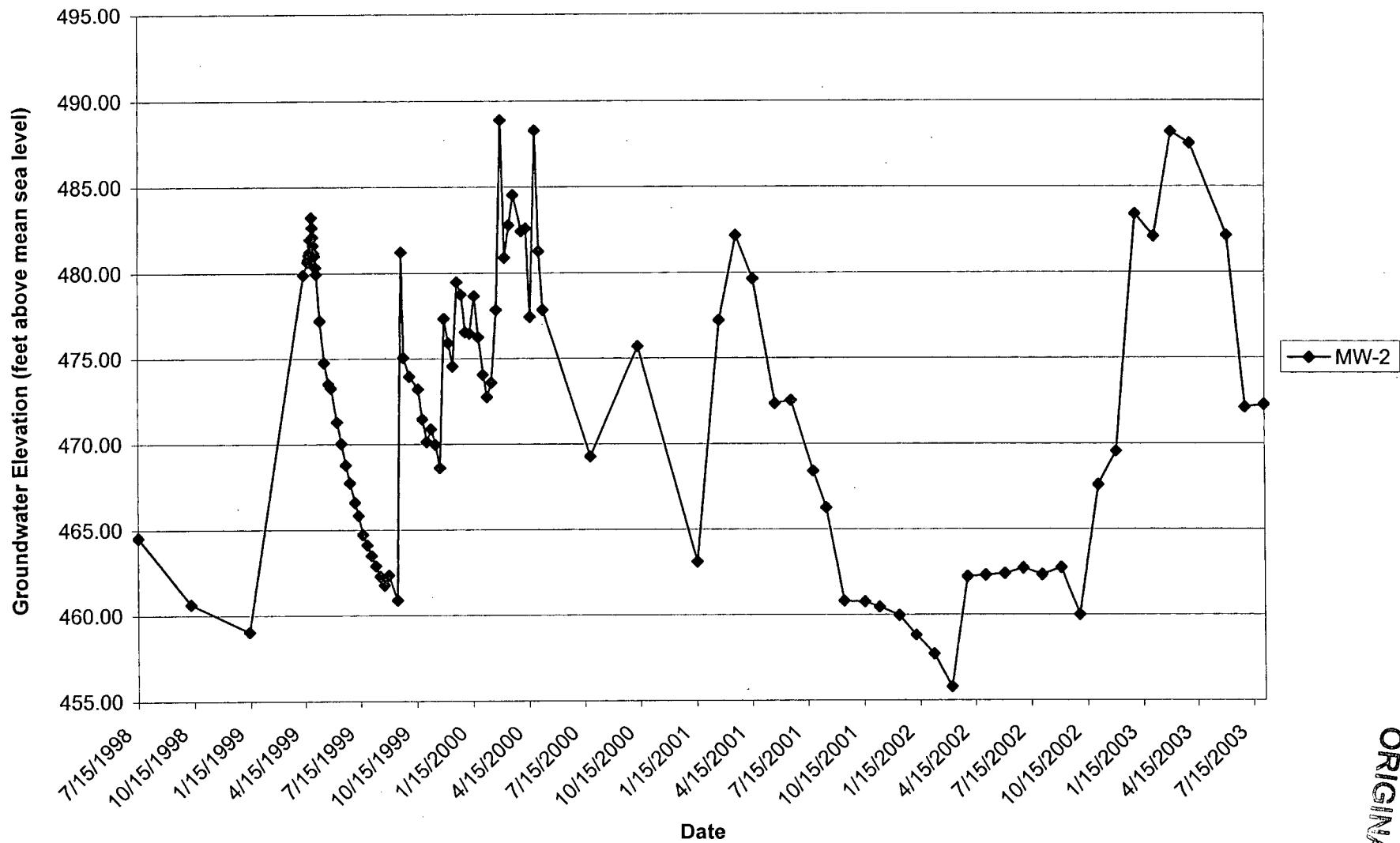


PZ-3 Hydrograph

ORIGINAL



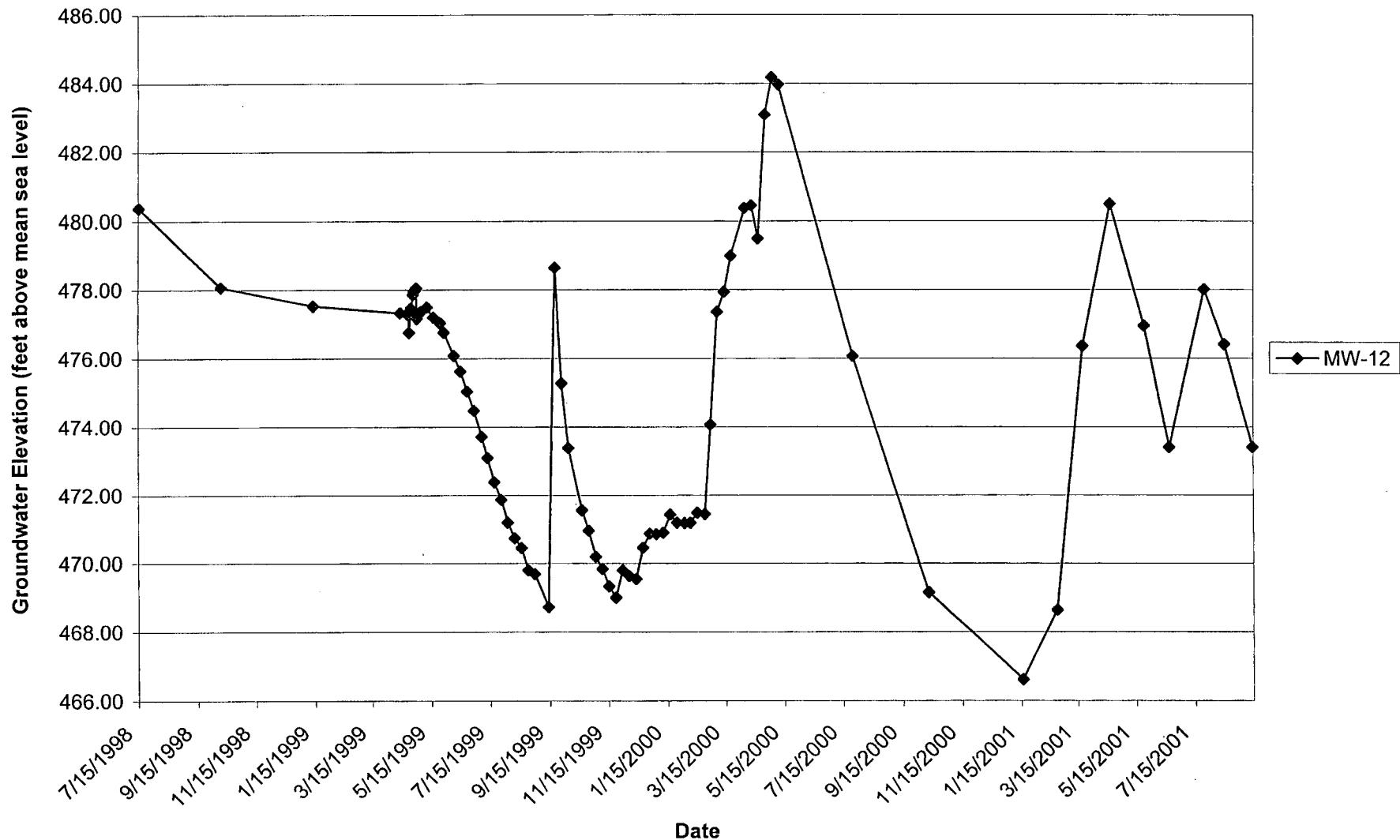
MW-2 Hydrograph



ORIGINAL

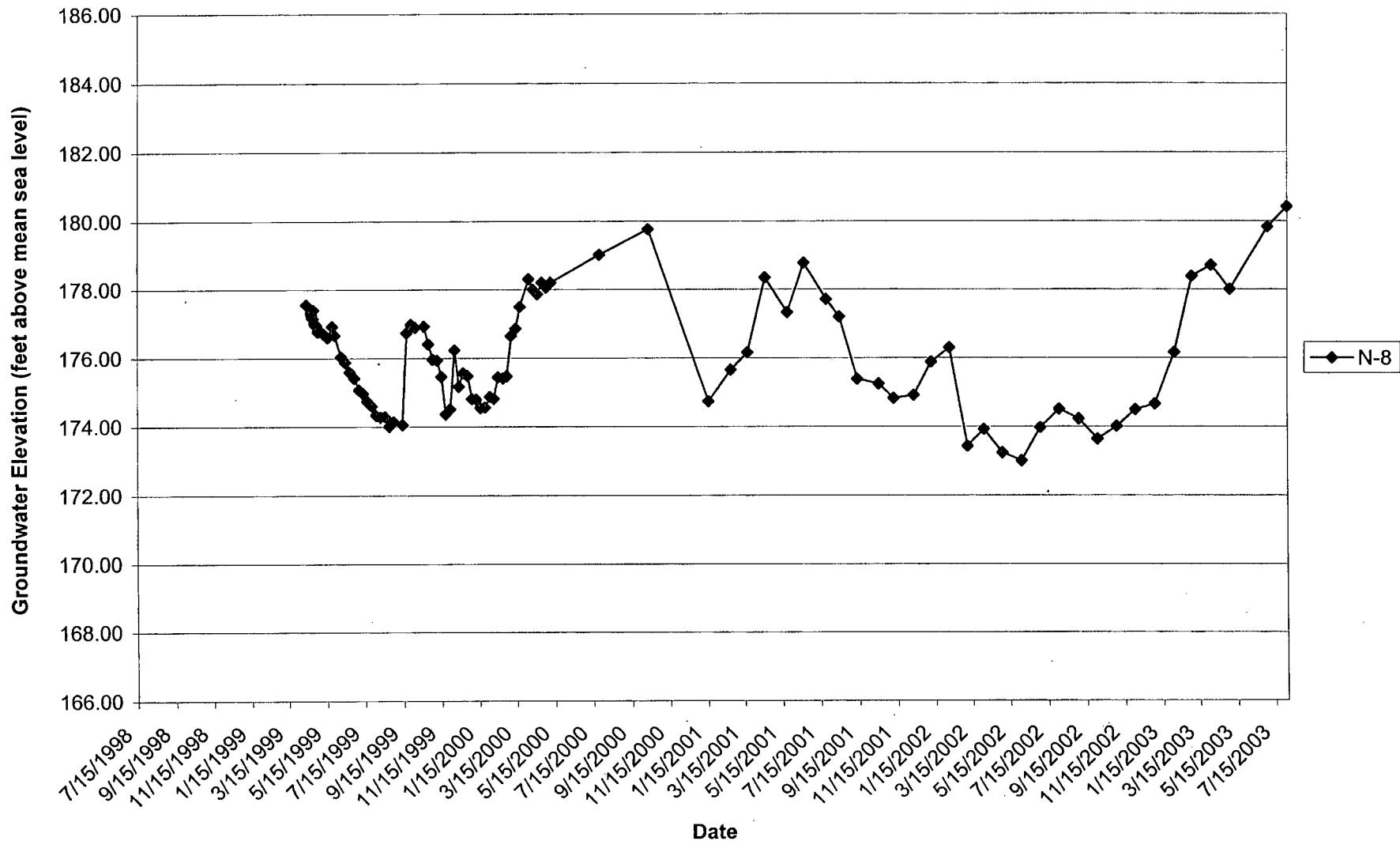
MW-12 Hydrograph

ORIGINAL



N-8 Hydrograph

ORIGINAL



ORIGINAL

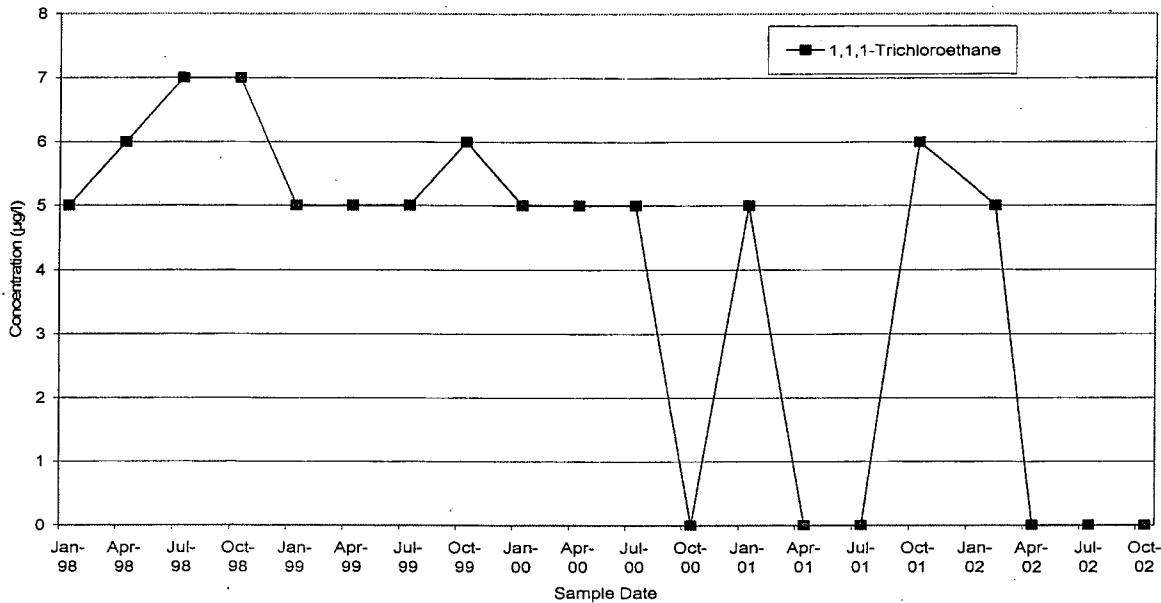
ORIGINAL

APPENDIX B
TREND CHARTS

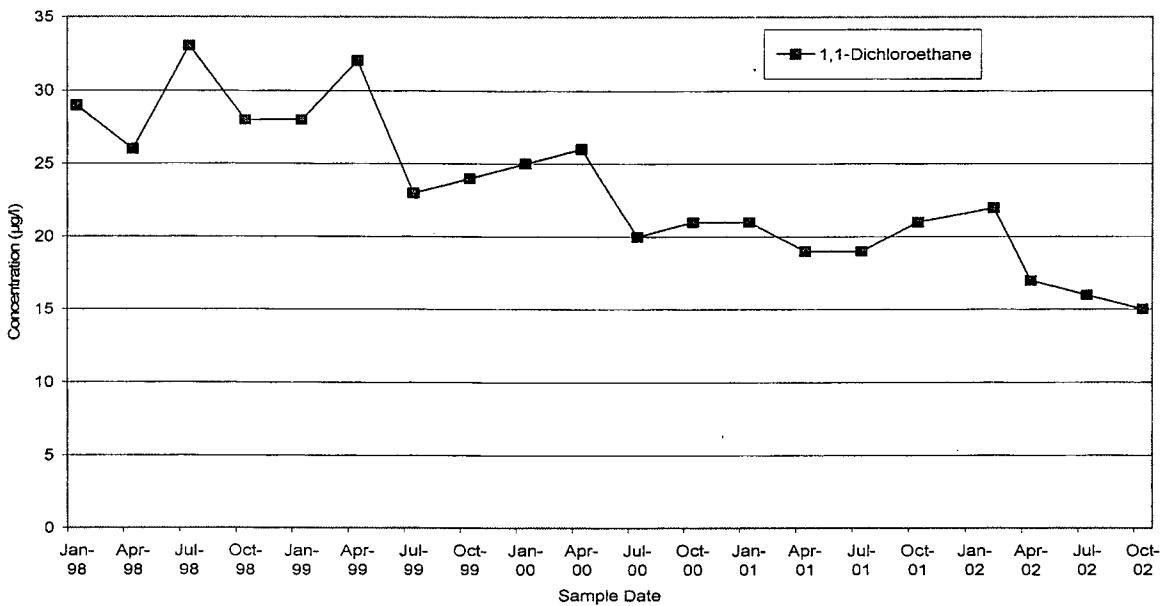
CHRIN BROTHERS LANDFILL
DM-2
TIME SERIES CHARTS

ORIGINAL

1,1,1-TRICHLOROETHANE
Cleanup Level (ESP) = 200 µg/l



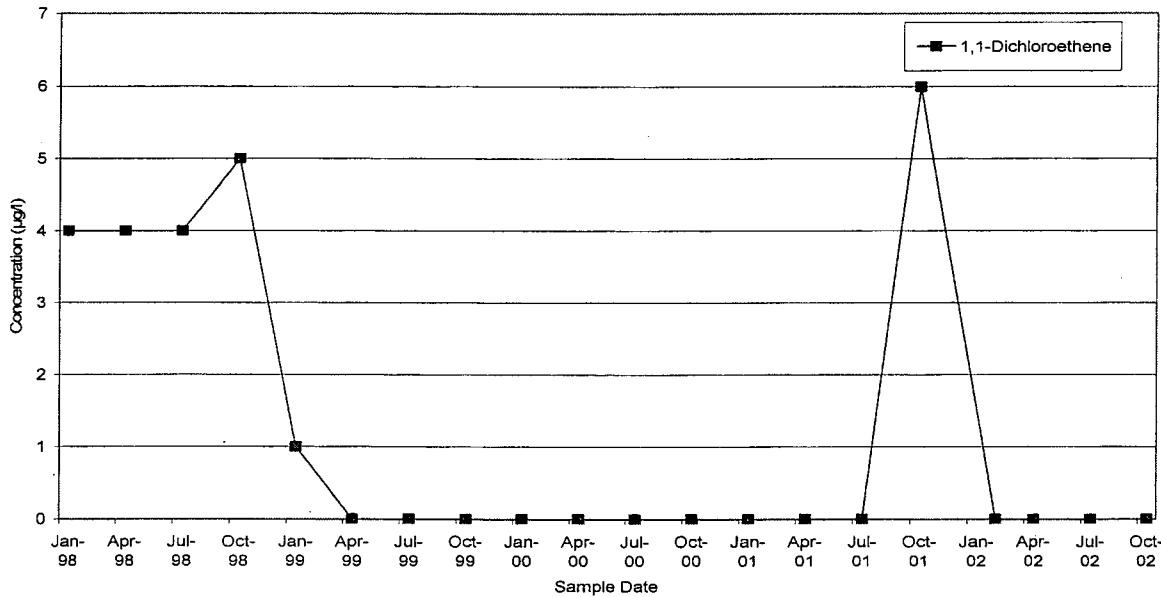
1,1-DICHLOROETHANE
Cleanup Level (ESP) = 27 µg/l



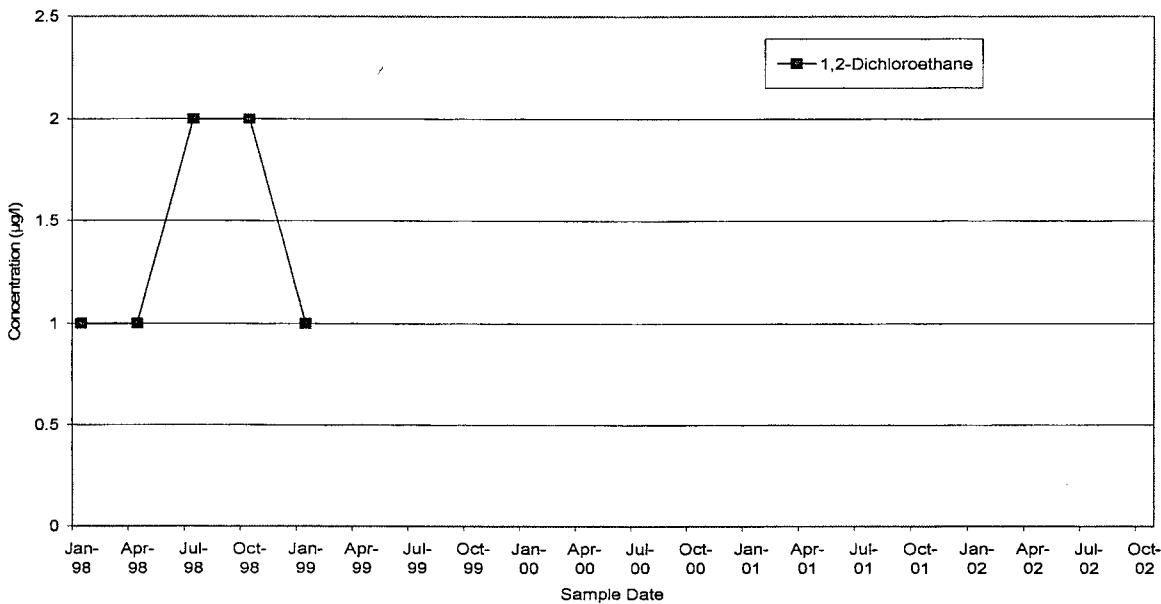
CHRIN BROTHERS LANDFILL
DM-2
TIME SERIES CHARTS

ORIGINAL

1,1-DICHLOROETHENE
Cleanup Level (ESP) = 7 $\mu\text{g/l}$



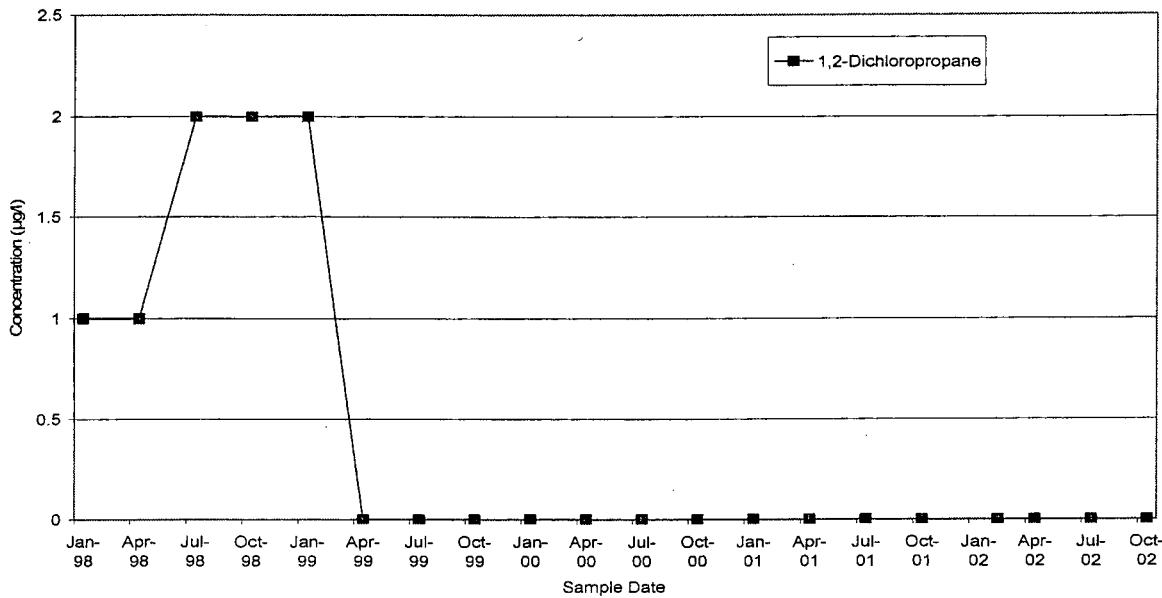
1,2-DICHLOROETHANE
Cleanup Level (ESP) = 5 $\mu\text{g/l}$



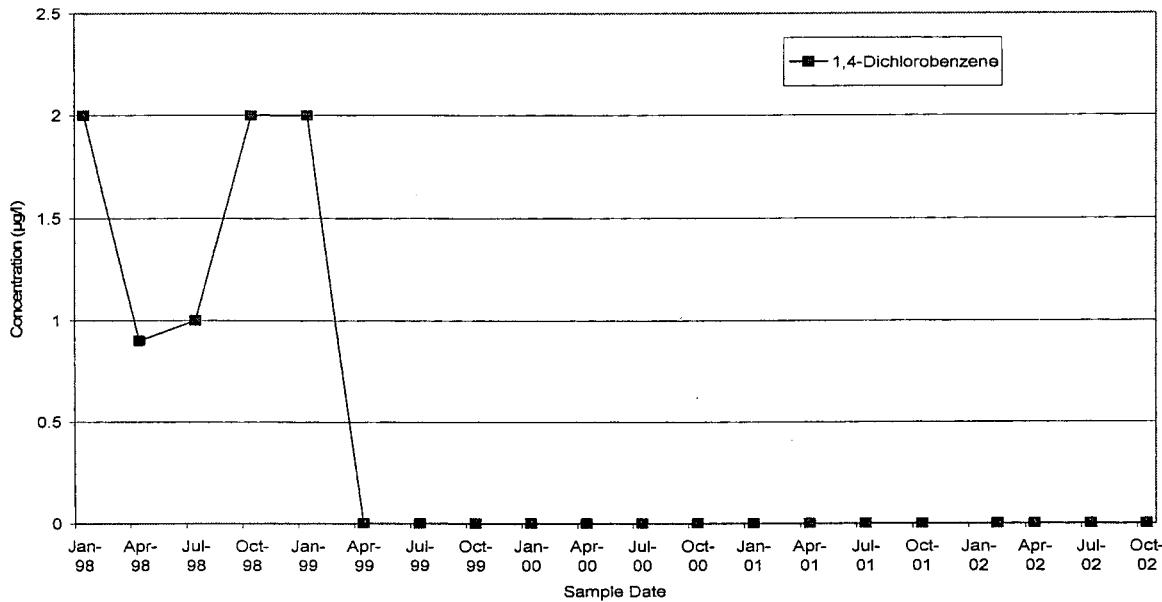
CHRIN BROTHERS LANDFILL
DM-2
TIME SERIES CHARTS

ORIGINAL

1,2-DICHLOROPROPANE
Cleanup Level (ESP) = 5 µg/l



1,4-DICHLOROBENZENE
Cleanup Level (ESP) = 75 µg/l

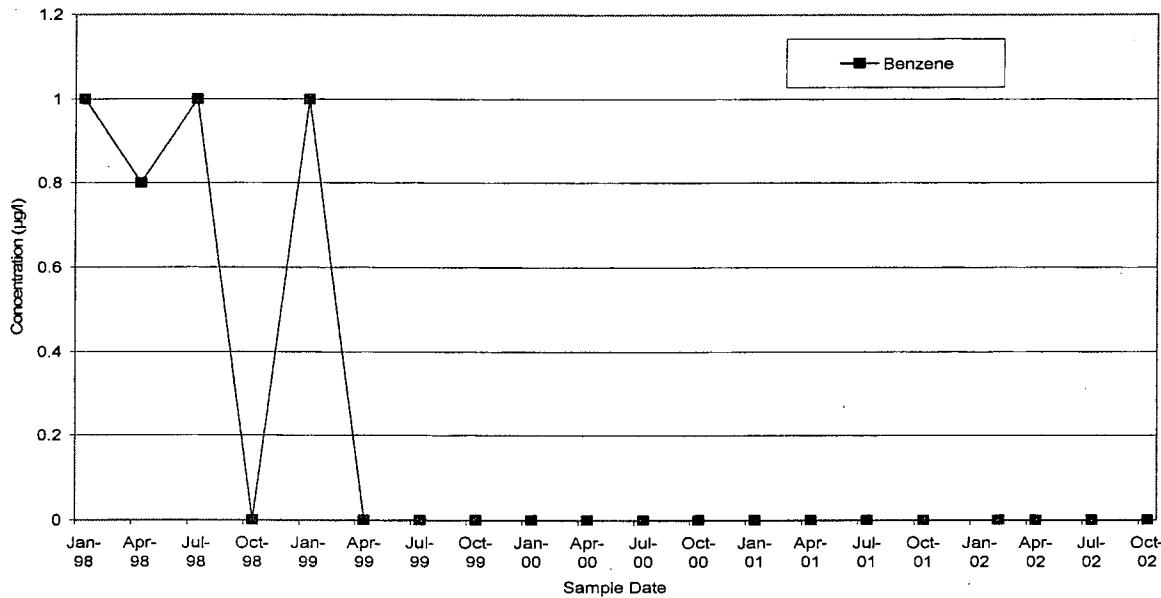


CHRIN BROTHERS LANDFILL
DM-2
TIME SERIES CHARTS

ORIGINAL

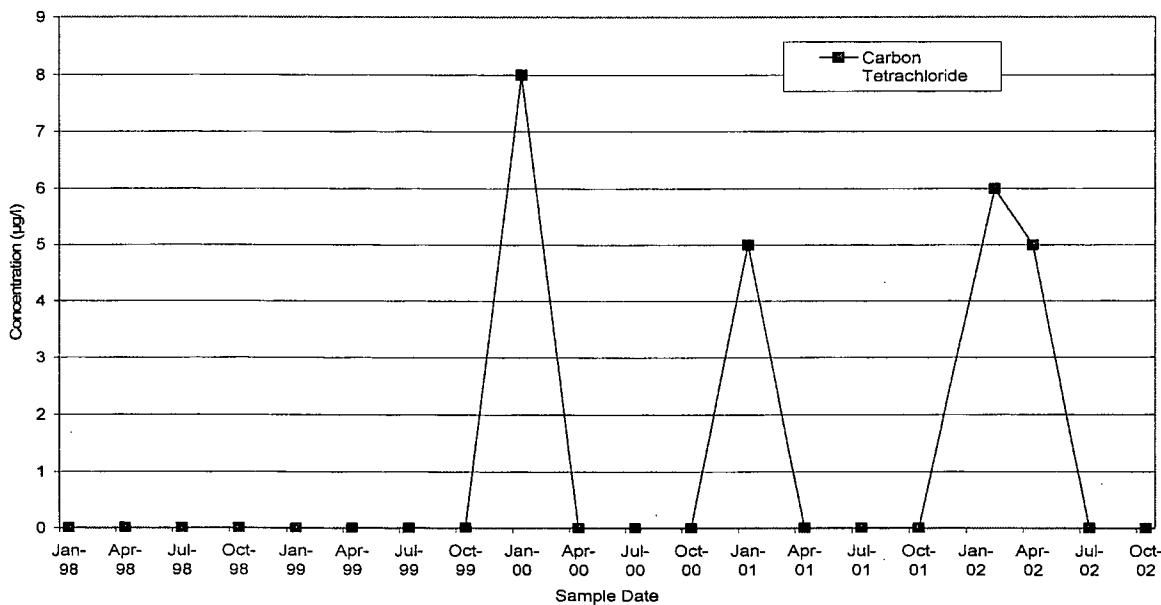
BENZENE

Cleanup Level (ESP) = 5 µg/l



CARBON TETRACHLORIDE

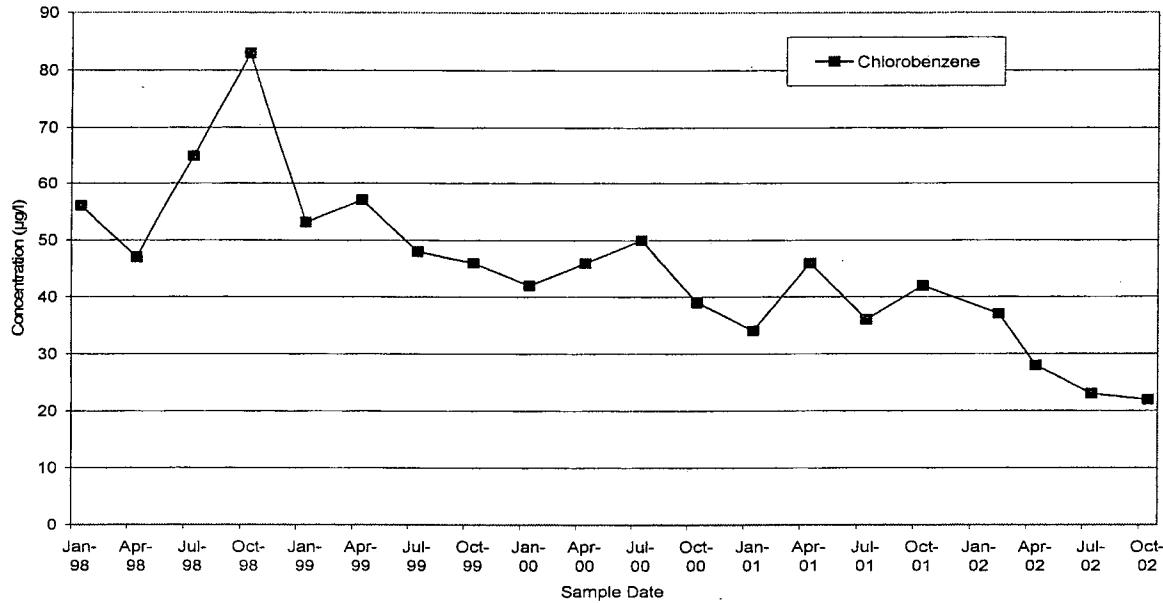
Cleanup Level (ESP) = 5 µg/l



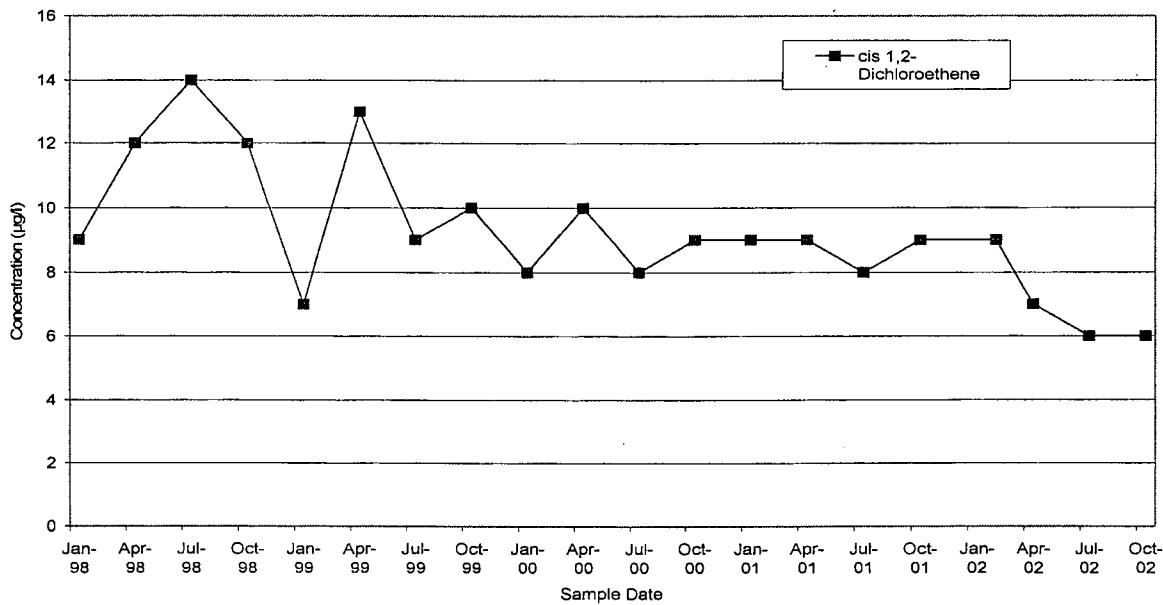
CHRIN BROTHERS LANDFILL
DM-2
TIME SERIES CHARTS

ORIGINAL

CHLOROBENZENE
Cleanup Level (ESP) = 100 µg/l



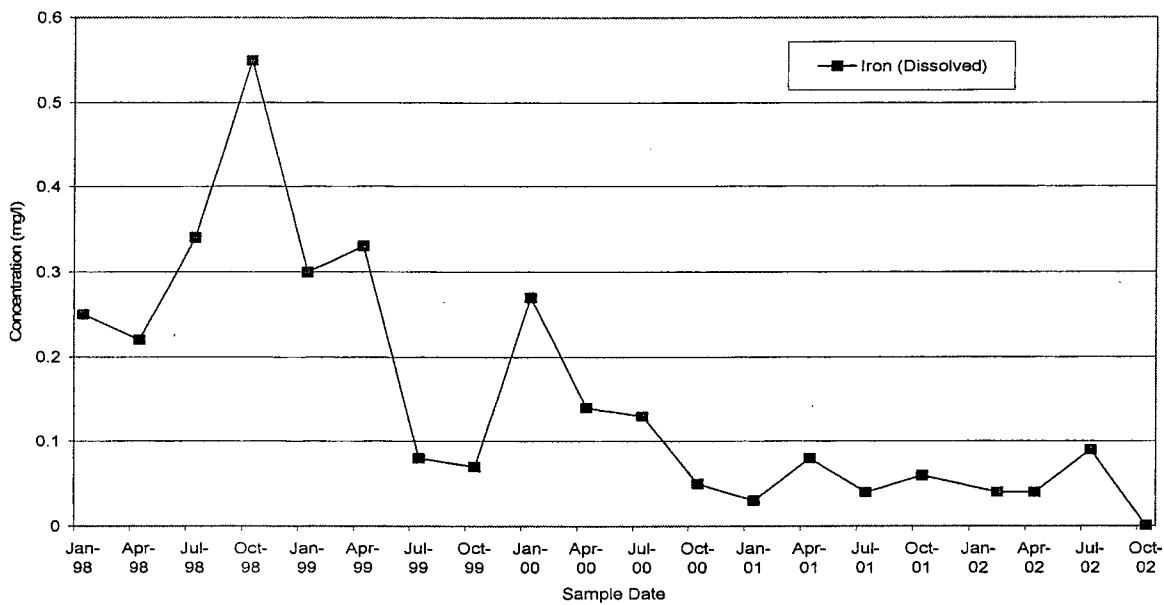
cis 1,2-DICHLOROETHENE
Cleanup Level (ESP) = 70 µg/l



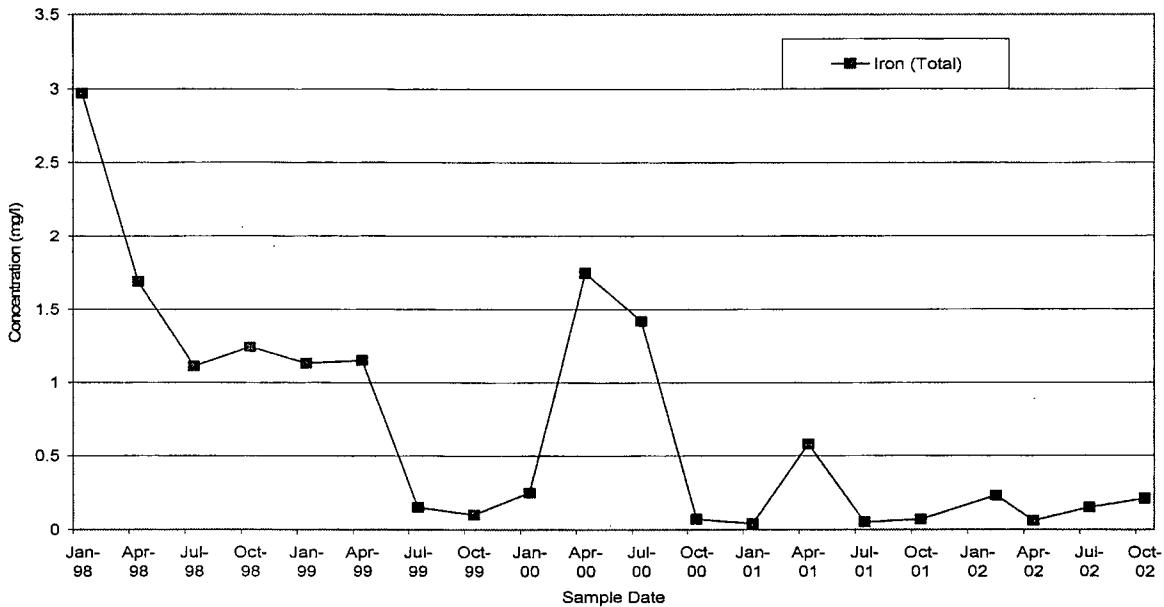
CHRIN BROTHERS LANDFILL
DM-2
TIME SERIES CHARTS

ORIGINAL

IRON, DISSOLVED



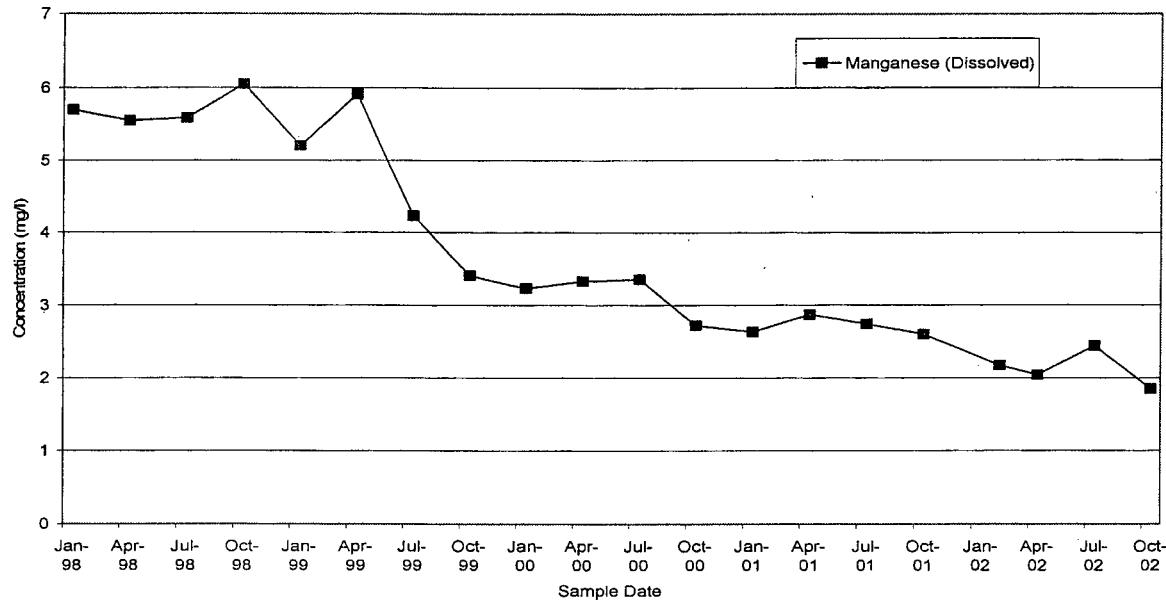
IRON, TOTAL



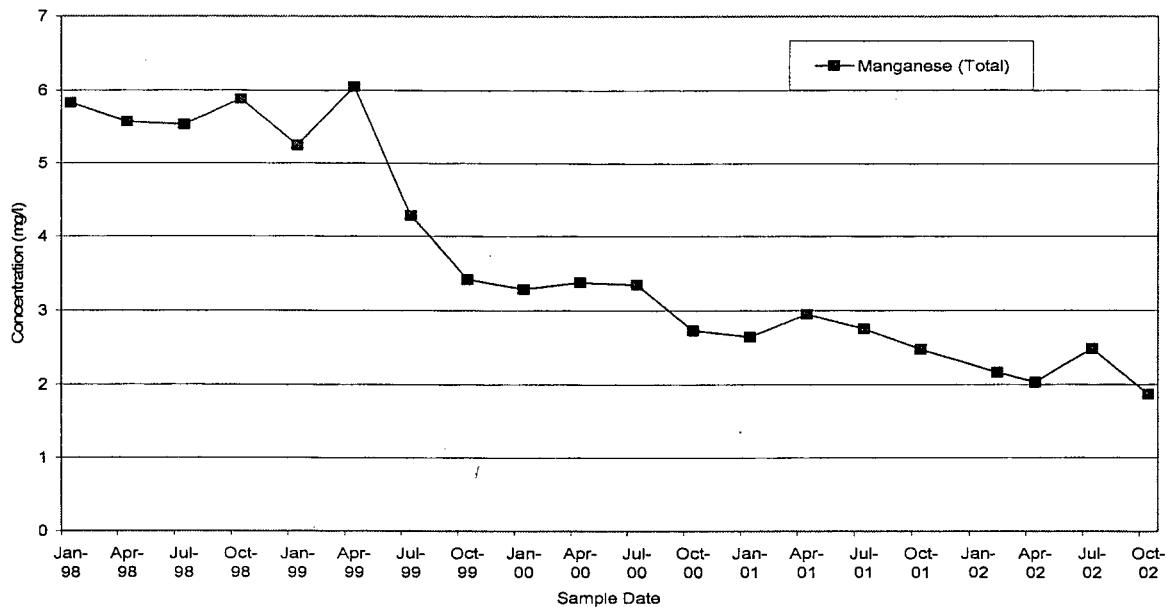
CHRIN BROTHERS LANDFILL
DM-2
TIME SERIES CHARTS

ORIGINAL

MANGANESE, DISSOLVED



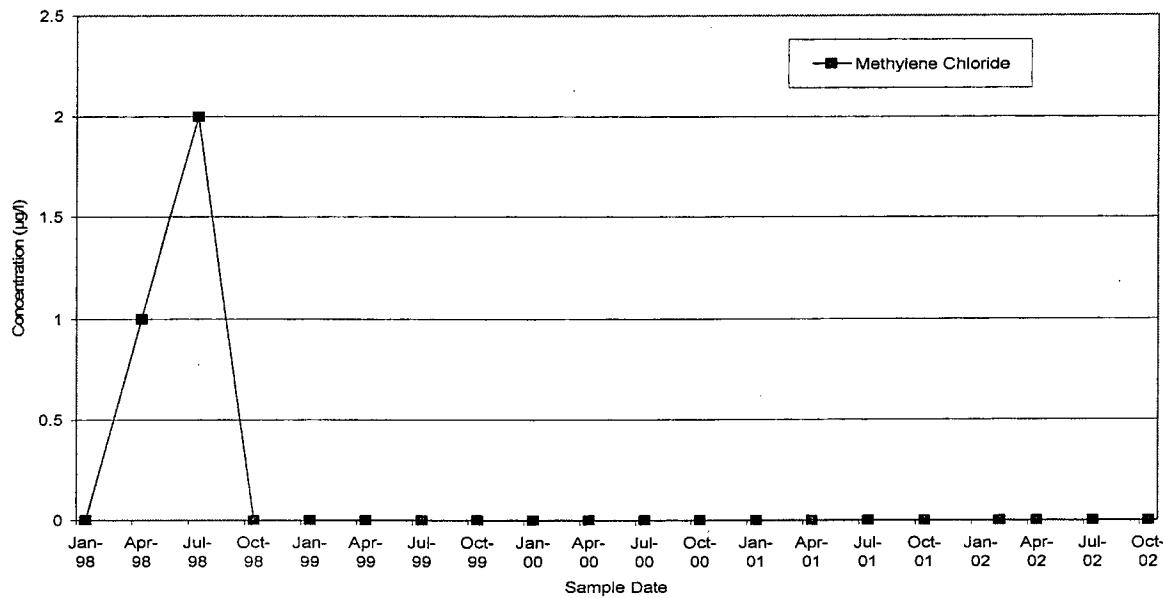
MANGANESE, TOTAL



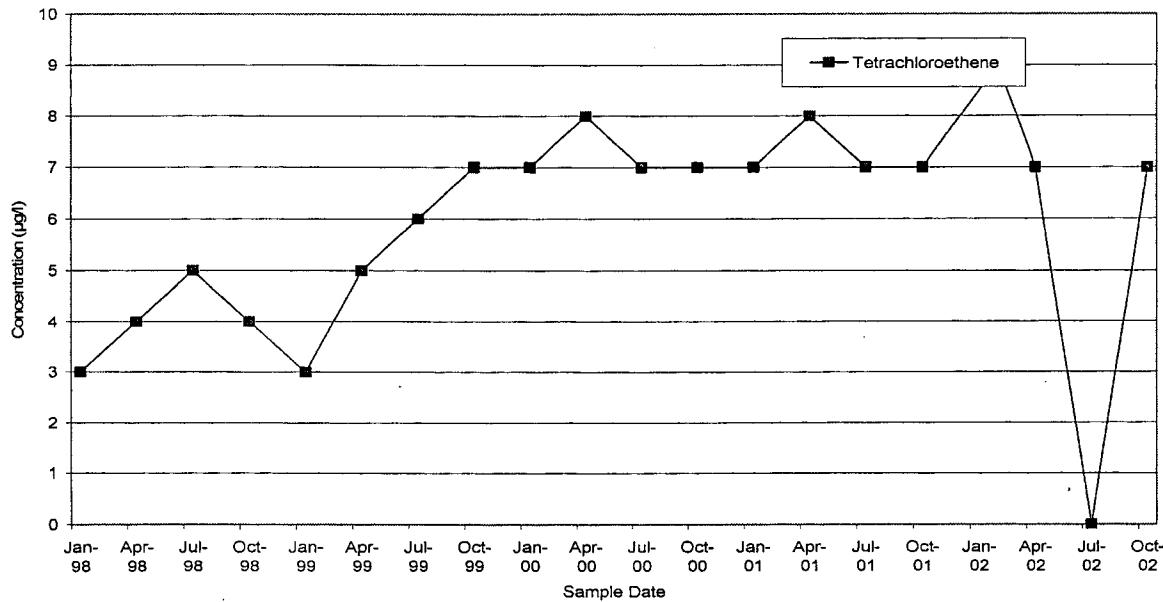
CHRIN BROTHERS LANDFILL
DM-2
TIME SERIES CHARTS

ORIGINAL

METHYLENE CHLORIDE
Cleanup Level (ESP) = 5 µg/l



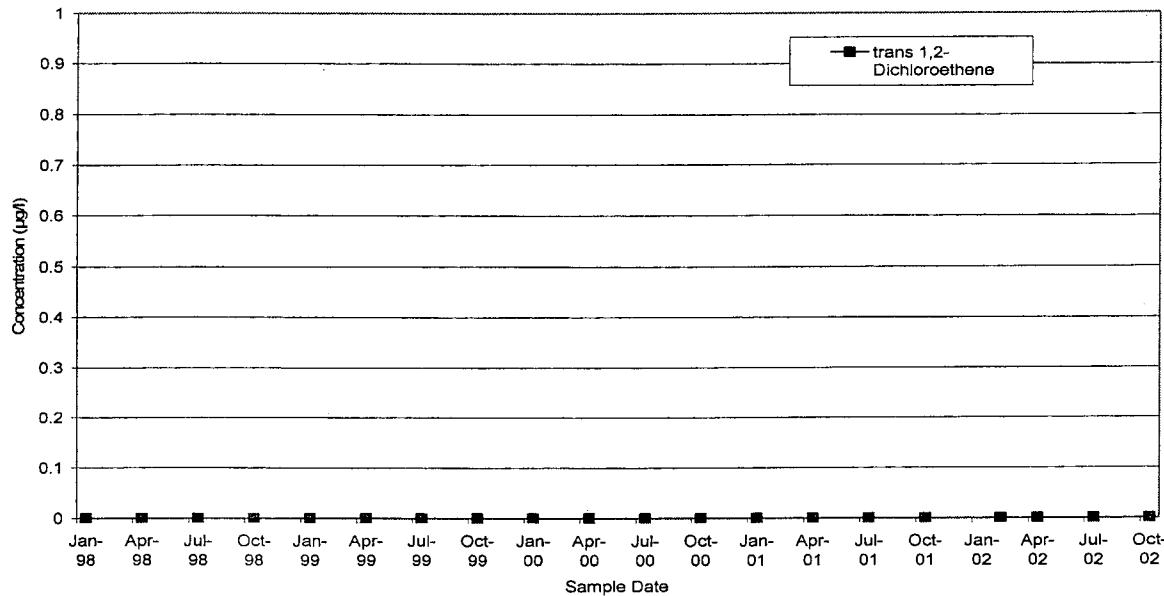
TETRACHLOROETHENE
Cleanup Level (ESP) = 5 µg/l



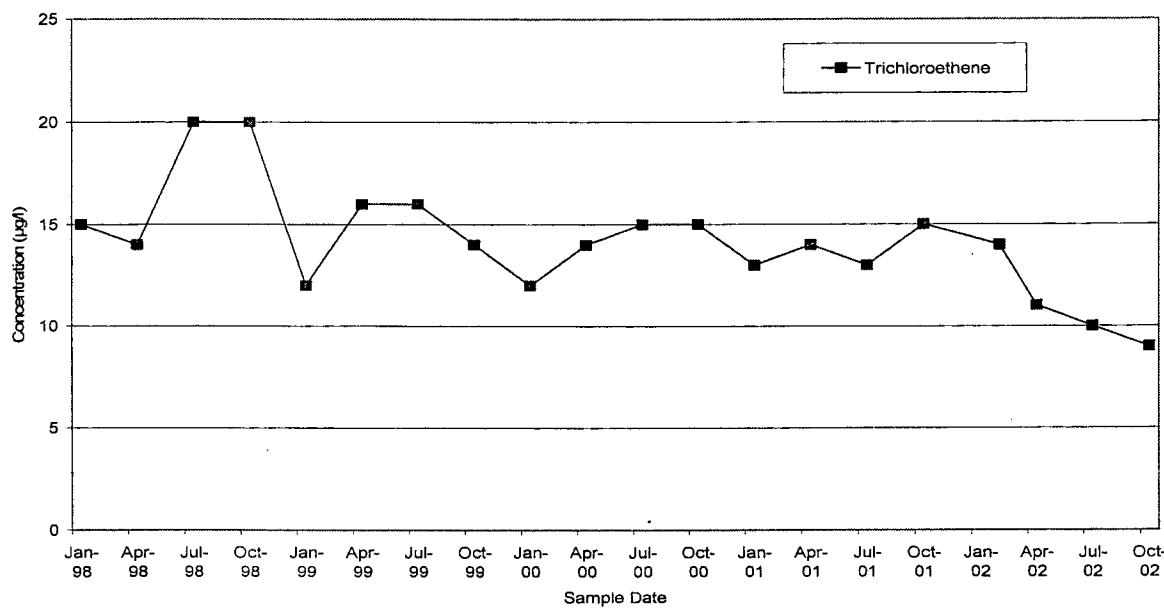
CHRIN BROTHERS LANDFILL
DM-2
TIME SERIES CHARTS

ORIGINAL

trans 1,2-DICHLOROETHENE
Cleanup Level (ESP) = 100 µg/l



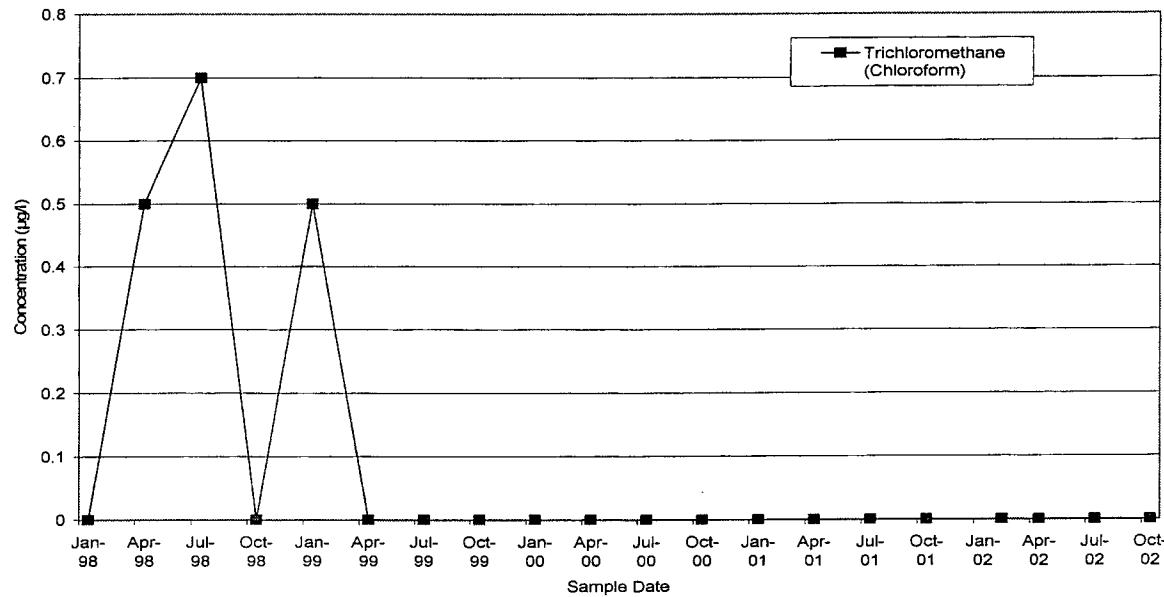
TRICHLOROETHENE
Cleanup Level (ESP) = 5 µg/l



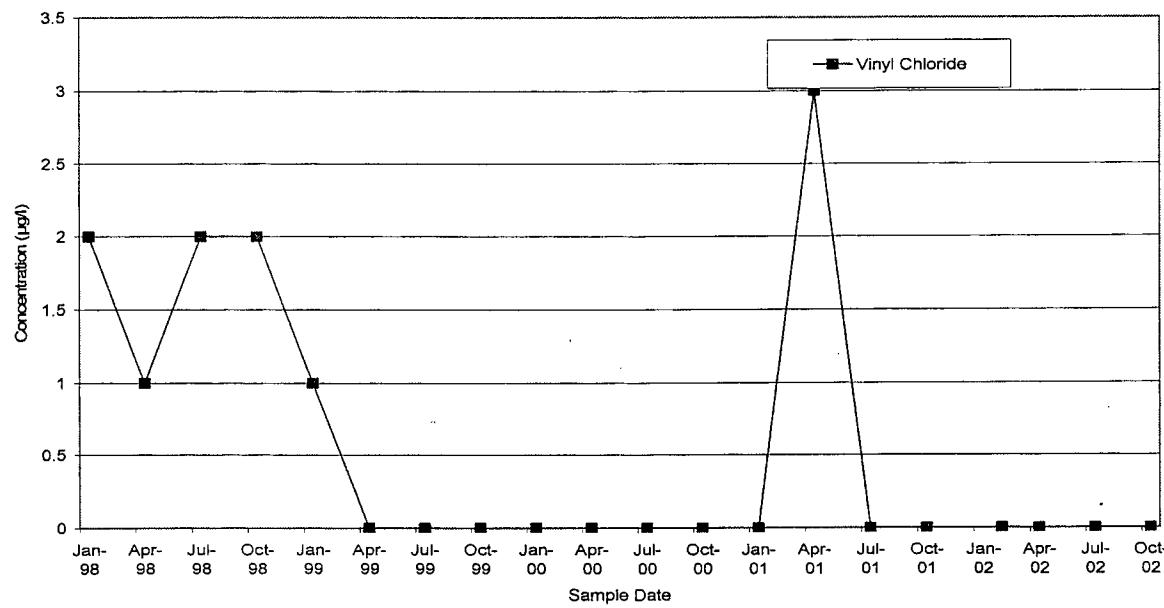
CHRIN BROTHERS LANDFILL
DM-2
TIME SERIES CHARTS

ORIGINAL

TRICHLOROMETHANE
Cleanup Level (ESP) = 100 µg/l



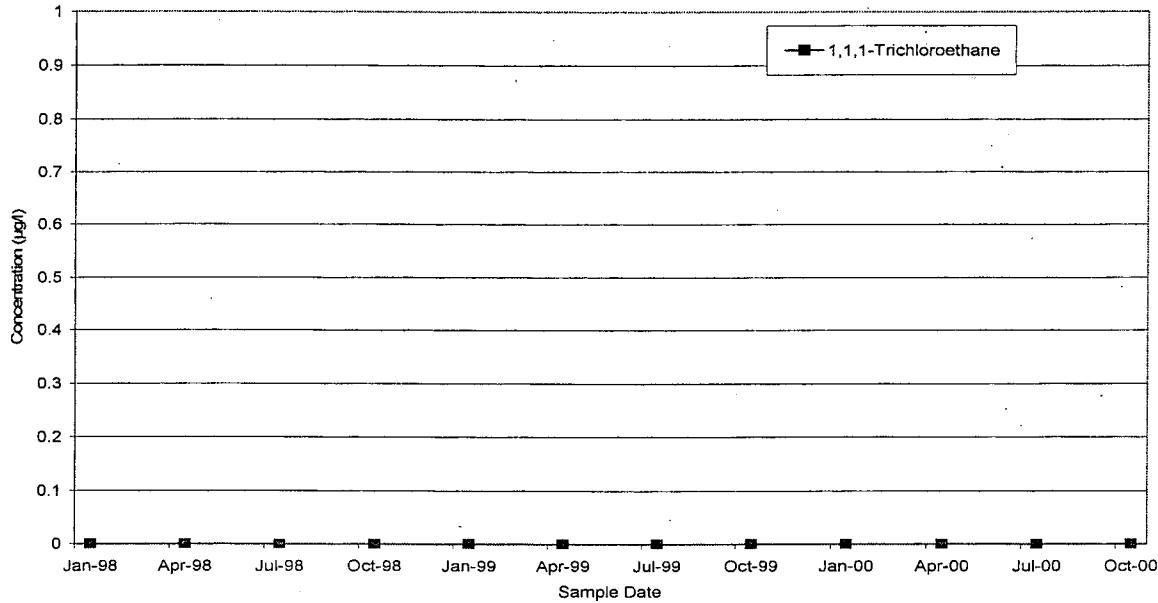
VINYL CHLORIDE
Cleanup Level (ESP) = 2 µg/l



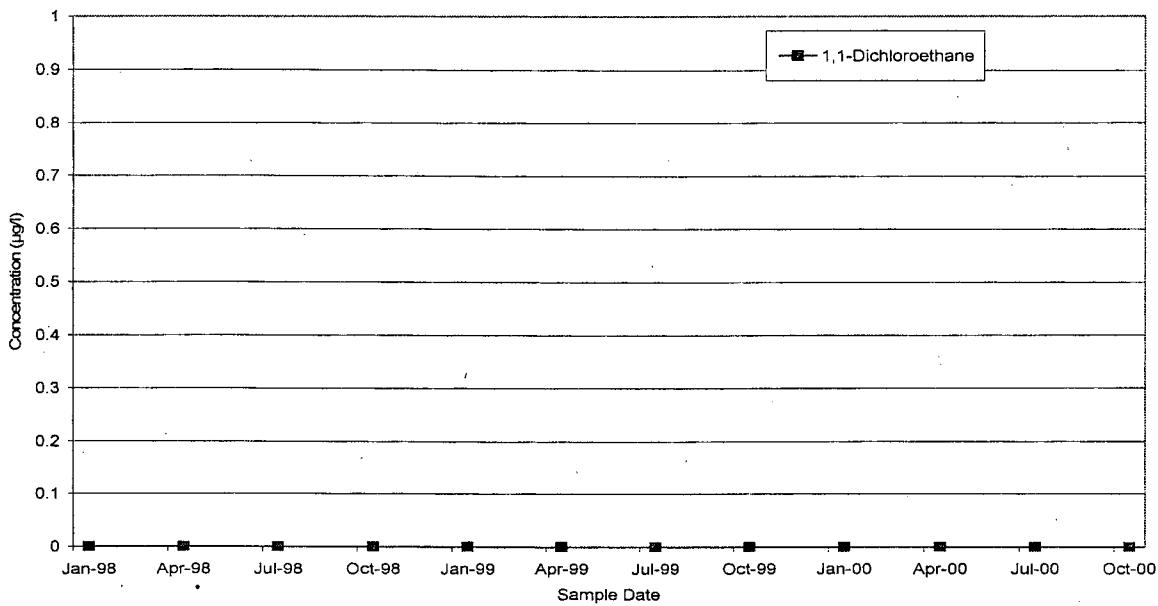
CHRIN BROTHERS LANDFILL
DM-4
TIME SERIES CHARTS

ORIGINAL

1,1,1-TRICHLOROETHANE
Cleanup Level (ESP) = 200 µg/l



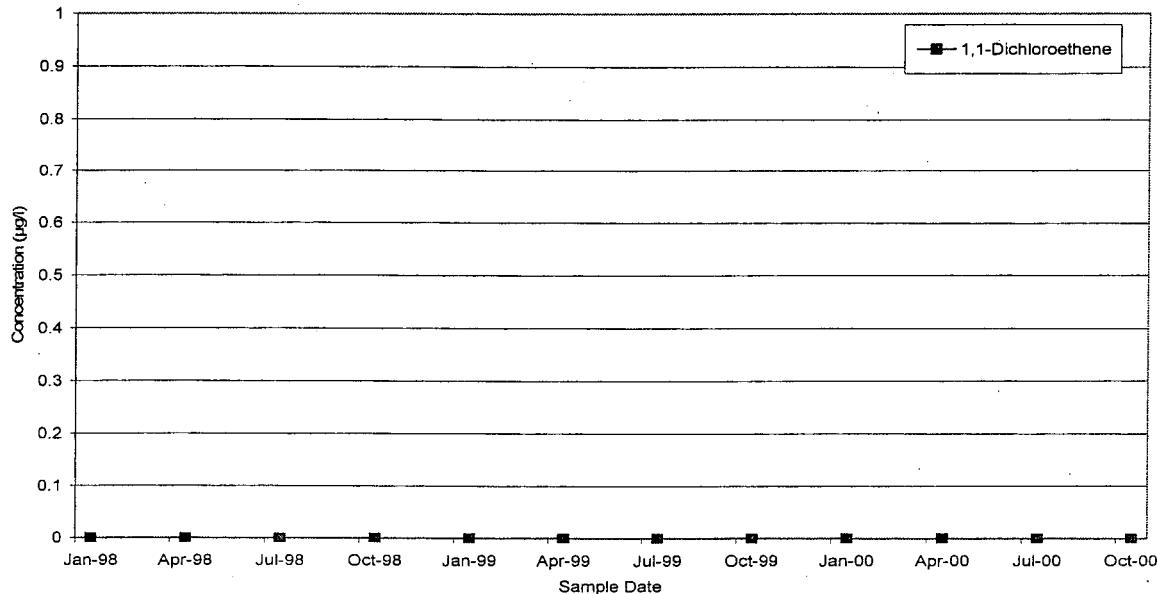
1,1-DICHLOROETHANE
Cleanup Level (ESP) = 27 µg/l



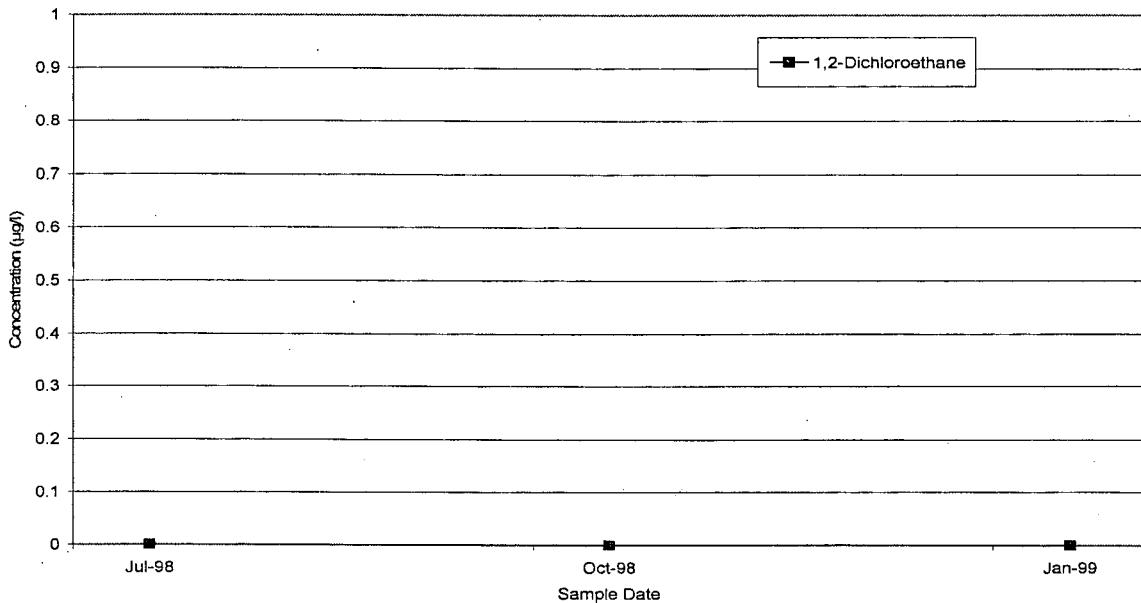
CHRIN BROTHERS LANDFILL
DM-4
TIME SERIES CHARTS

ORIGINAL

1,1-DICHLOROETHENE
Cleanup Level (ESP) = 7 µg/l



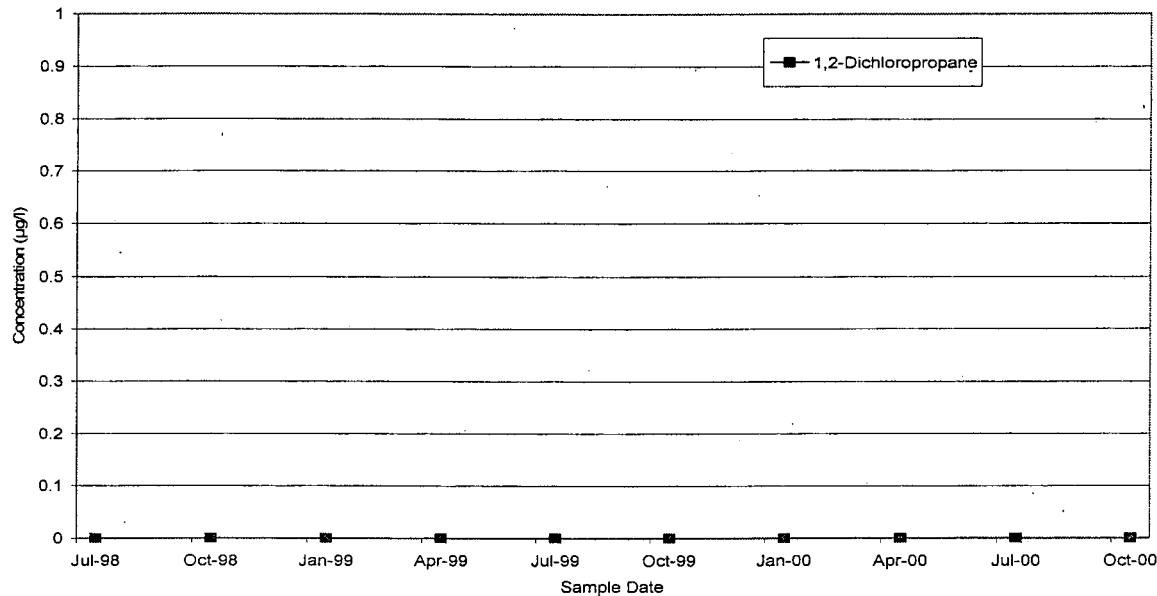
1,2-DICHLOROETHANE
Cleanup Level (ESP) = 5 µg/l



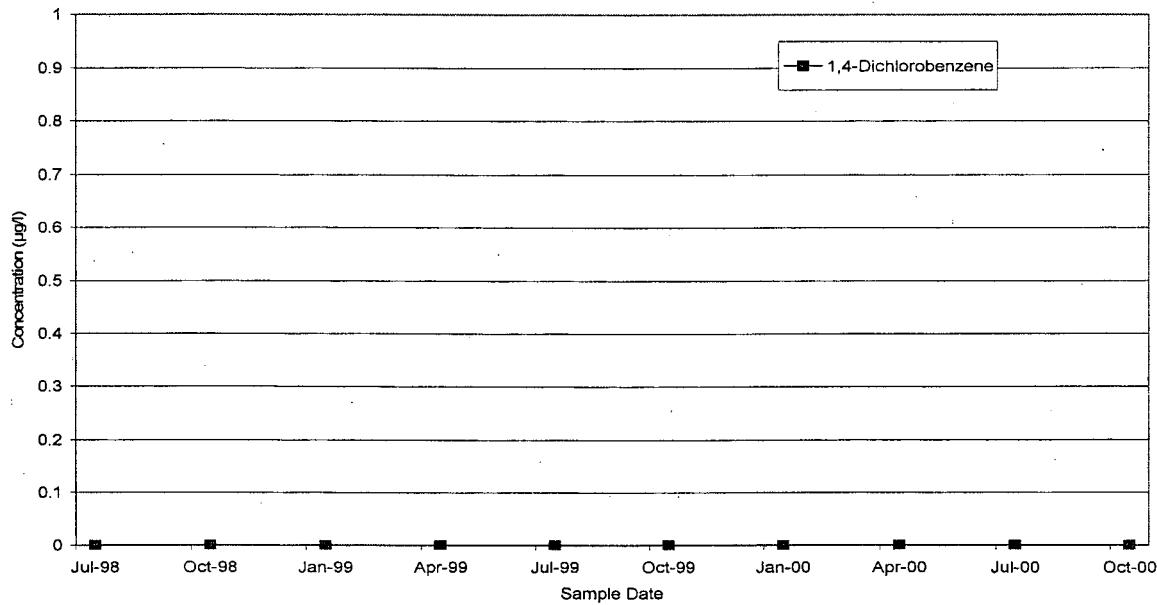
CHRIN BROTHERS LANDFILL
DM-4
TIME SERIES CHARTS

ORIGINAL

1,2-DICHLOROPROPANE
Cleanup Level (ESP) = 5 µg/l

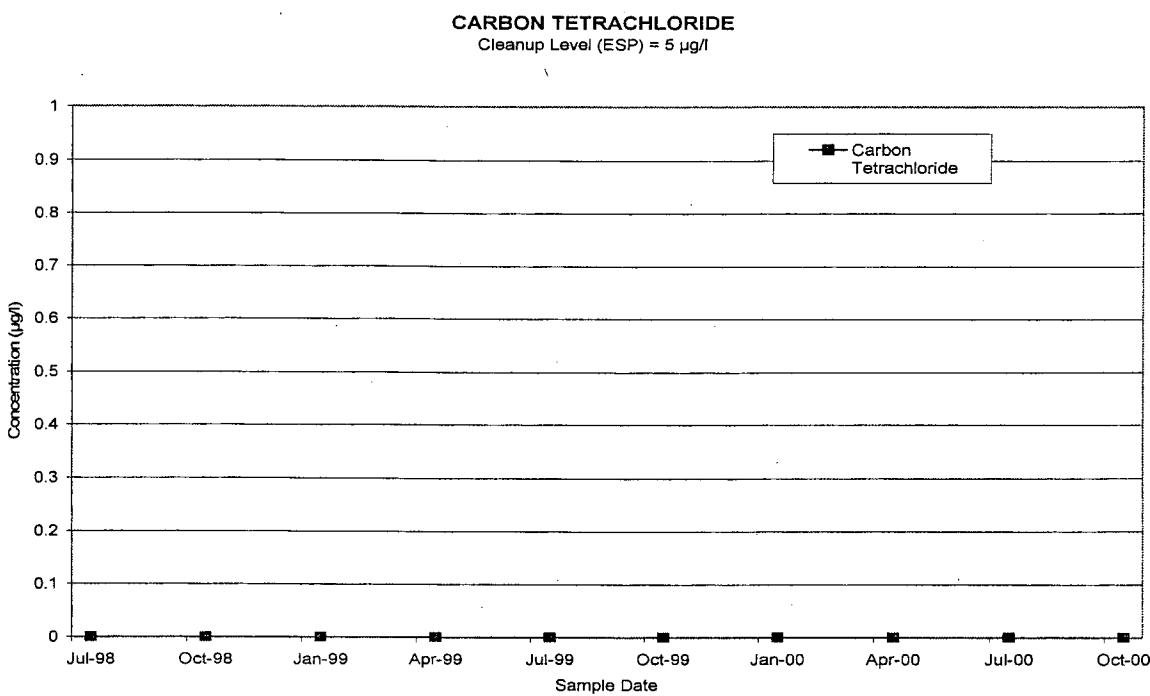
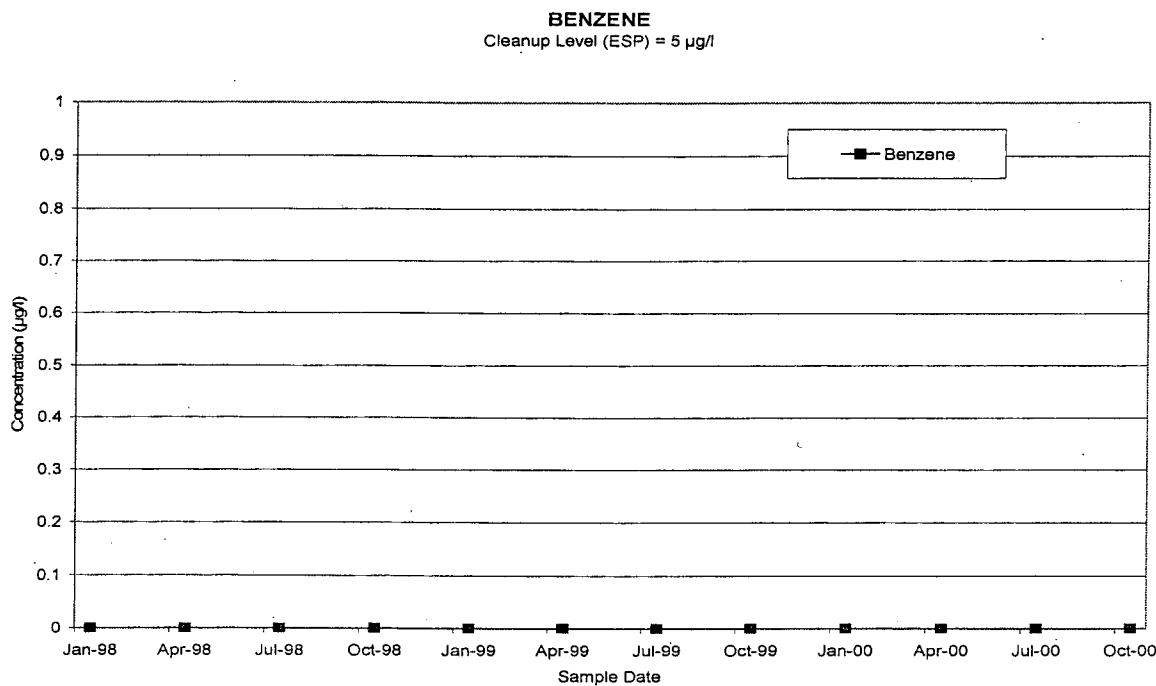


1,4-DICHLOROBENZENE
Cleanup Level (ESP) = 75 µg/l



CHRIN BROTHERS LANDFILL
DM-4
TIME SERIES CHARTS

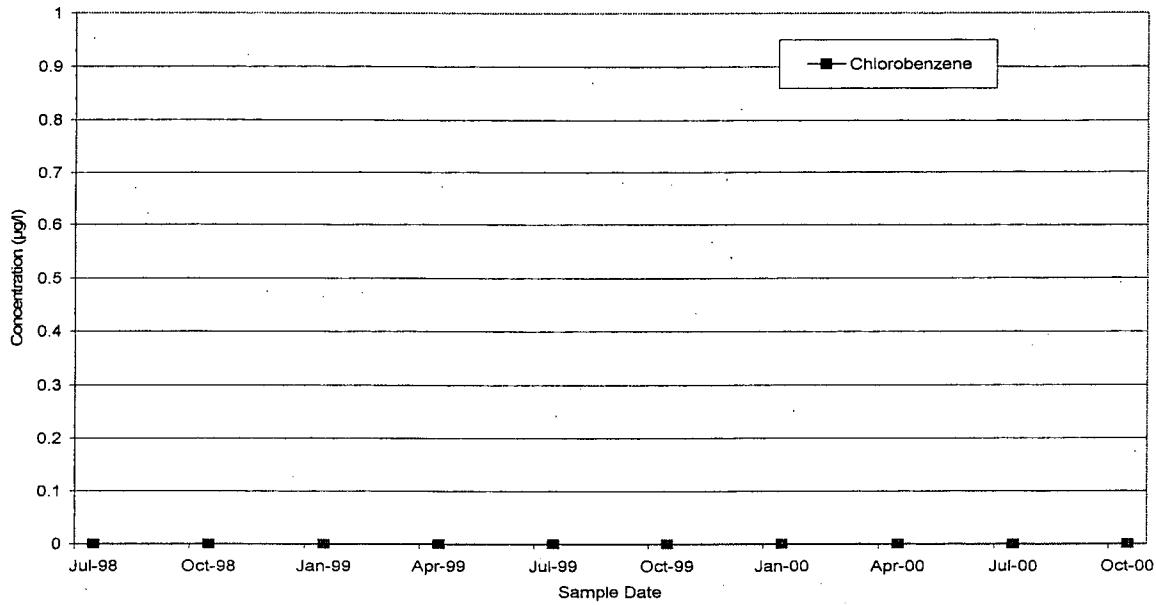
ORIGINAL



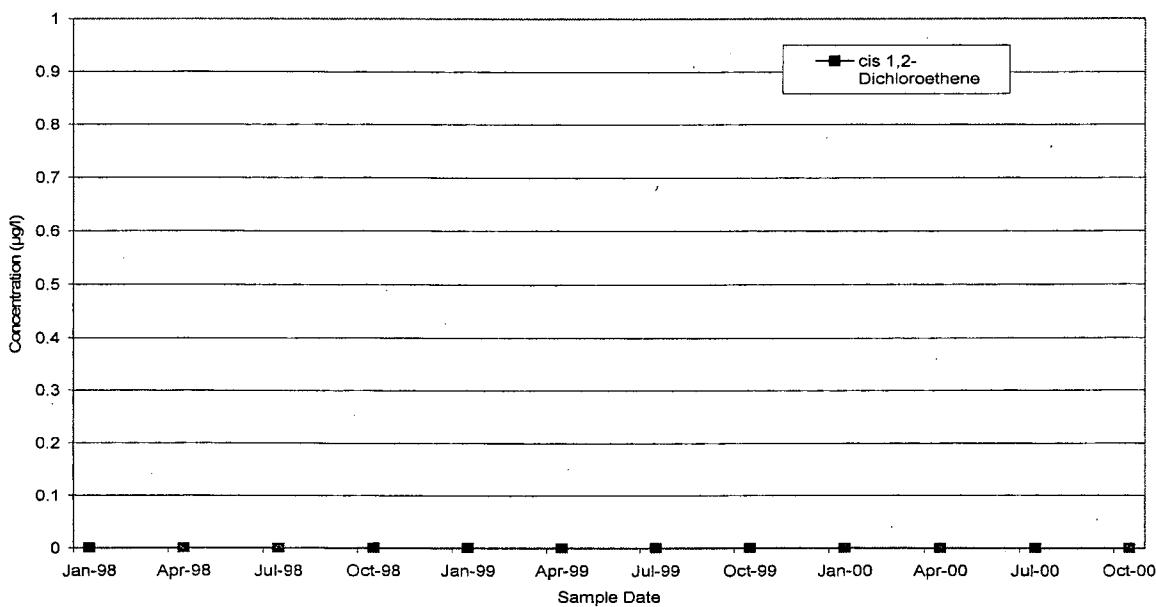
CHRIN BROTHERS LANDFILL
DM-4
TIME SERIES CHARTS

ORIGINAL

CHLOROBENZENE
Cleanup Level (ESP) = 100 µg/l



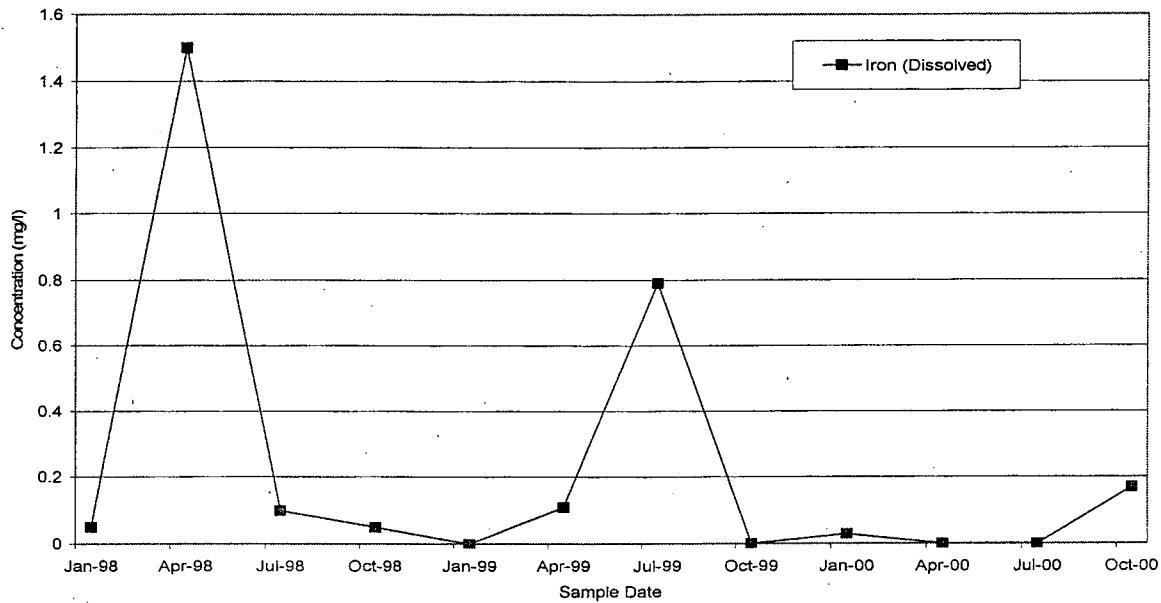
cis 1,2-DICHLOROETHENE
Cleanup Level (ESP) = 70 µg/l



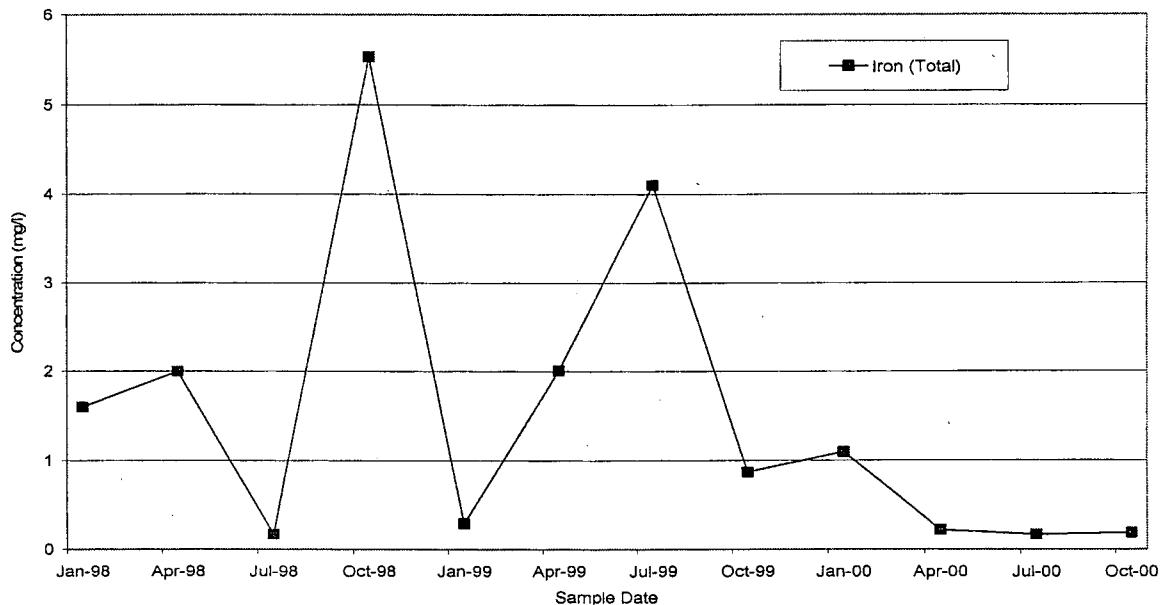
CHRIN BROTHERS LANDFILL
DM-4
TIME SERIES CHARTS

ORIGINAL

IRON, DISSOLVED



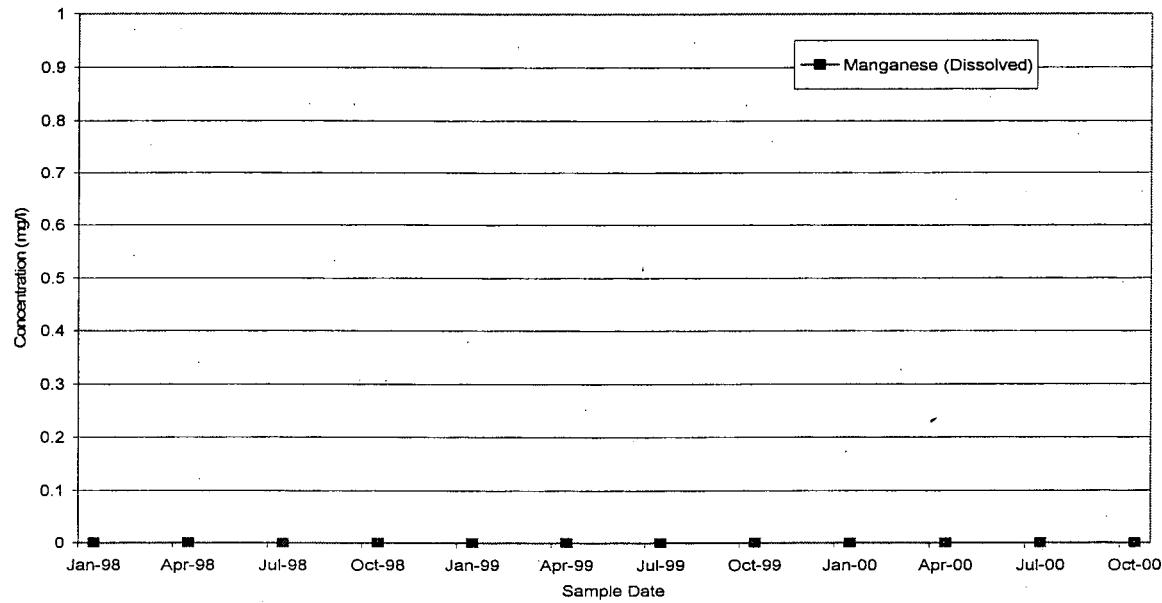
IRON, TOTAL



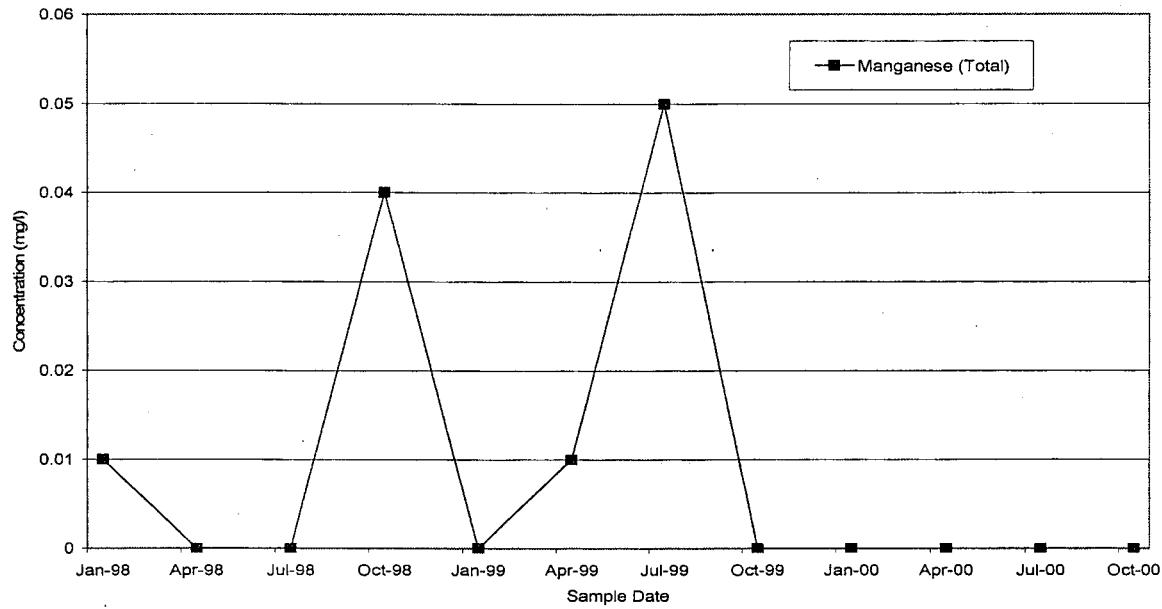
CHRIN BROTHERS LANDFILL
DM-4
TIME SERIES CHARTS

ORIGINAL

MANGANESE, DISSOLVED



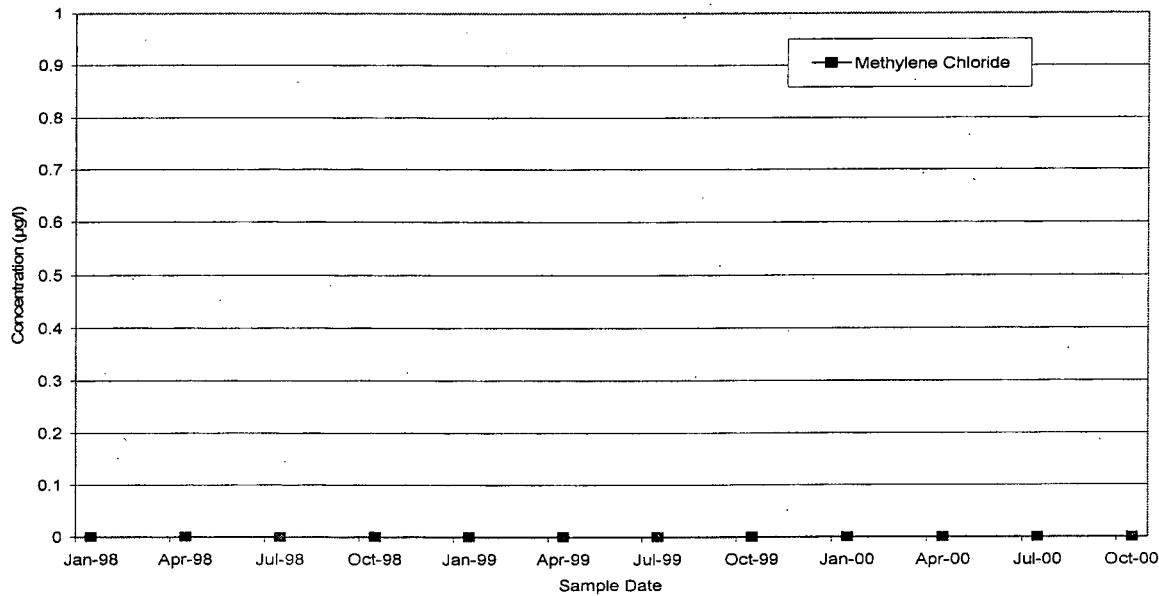
MANGANESE, TOTAL



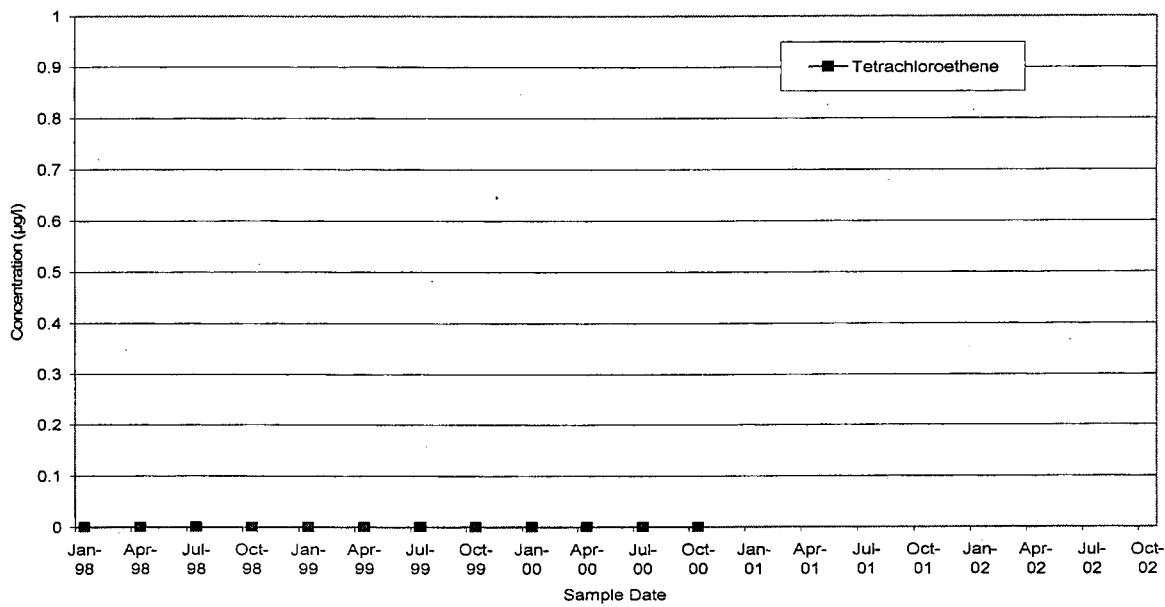
CHRIN BROTHERS LANDFILL
DM-4
TIME SERIES CHARTS

ORIGINAL

METHYLENE CHLORIDE
Cleanup Level (ESP) = 5 µg/l



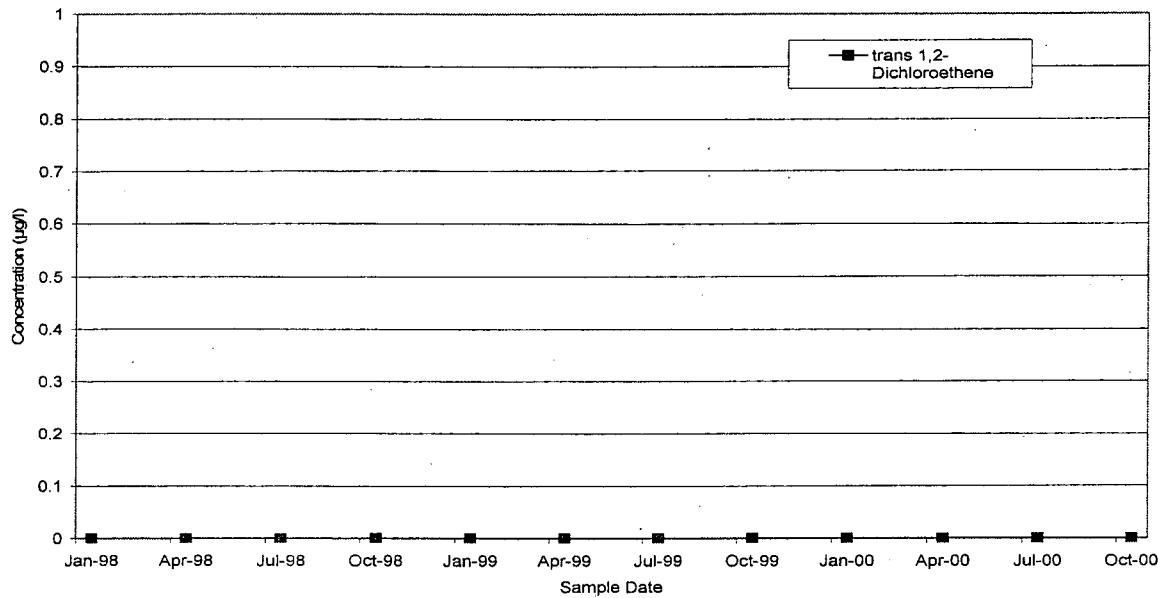
TETRACHLOROETHENE
Cleanup Level (ESP) = 5 µg/l



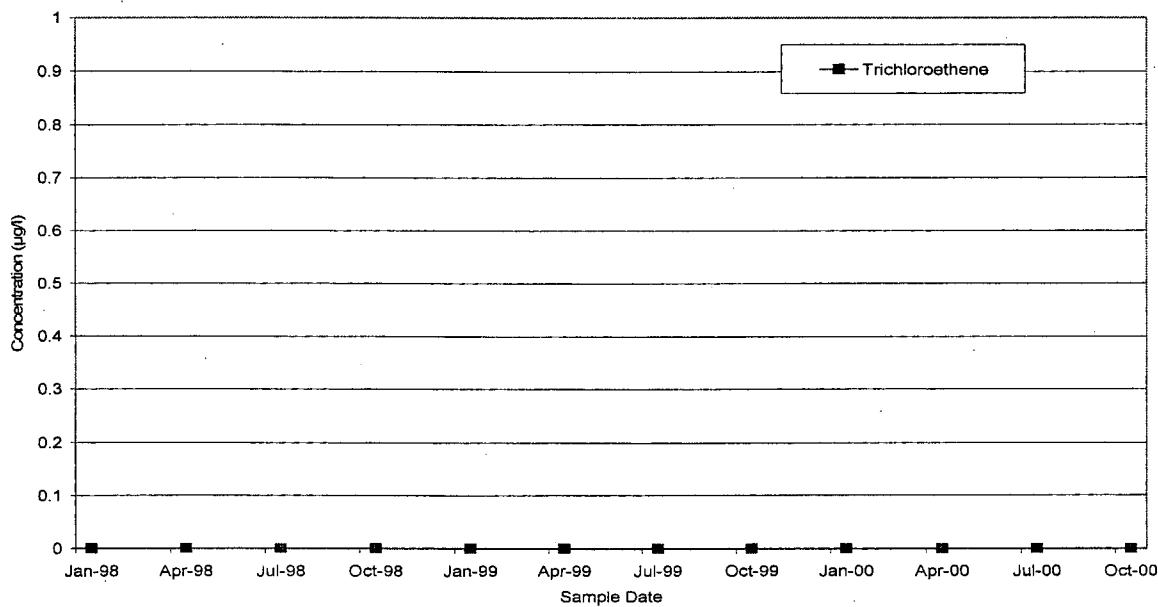
CHRIN BROTHERS LANDFILL
DM-4
TIME SERIES CHARTS

ORIGINAL

trans 1,2-DICHLOROETHENE
Cleanup Level (ESP) = 100 µg/l



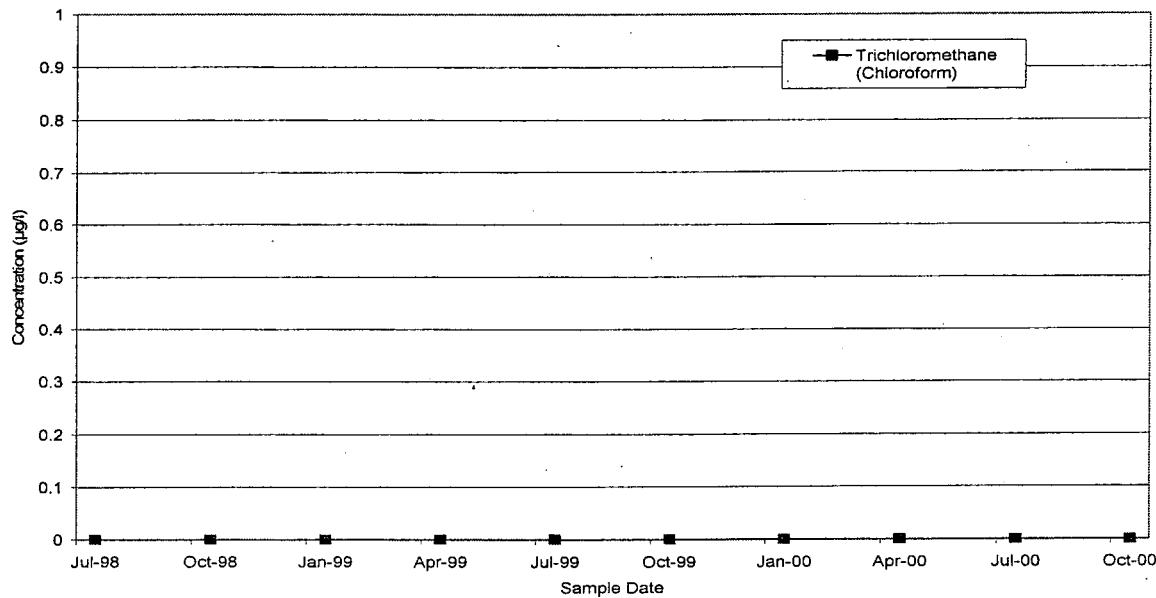
TRICHLOROETHENE
Cleanup Level (ESP) = 5 µg/l



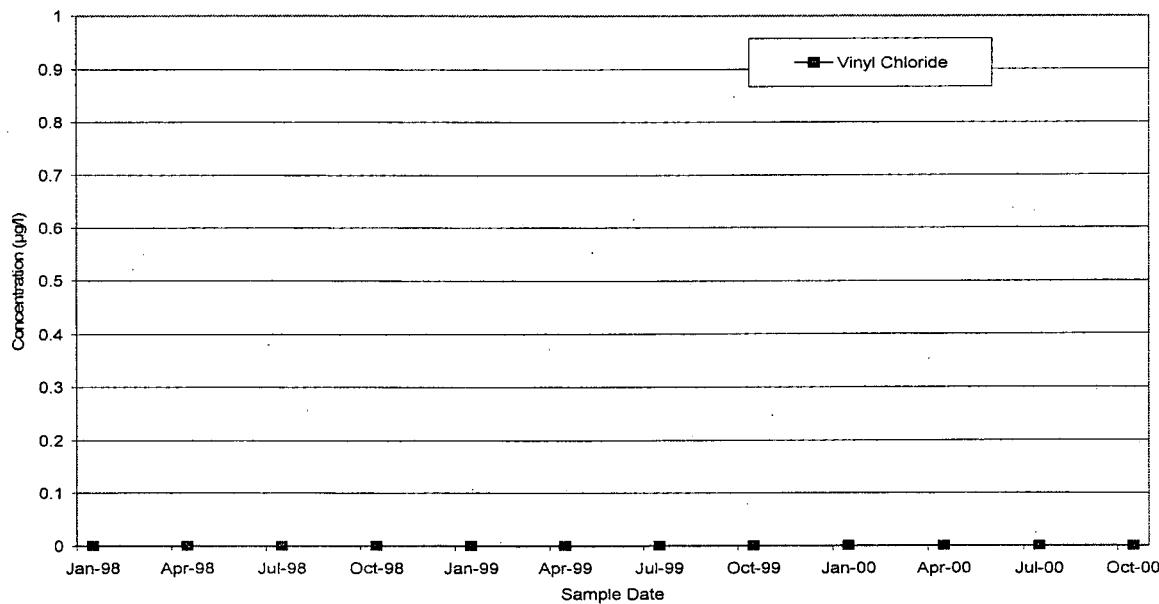
CHRIN BROTHERS LANDFILL
DM-4
TIME SERIES CHARTS

ORIGINAL

TRICHLOROMETHANE
Cleanup Level (ESP) = 100 µg/l



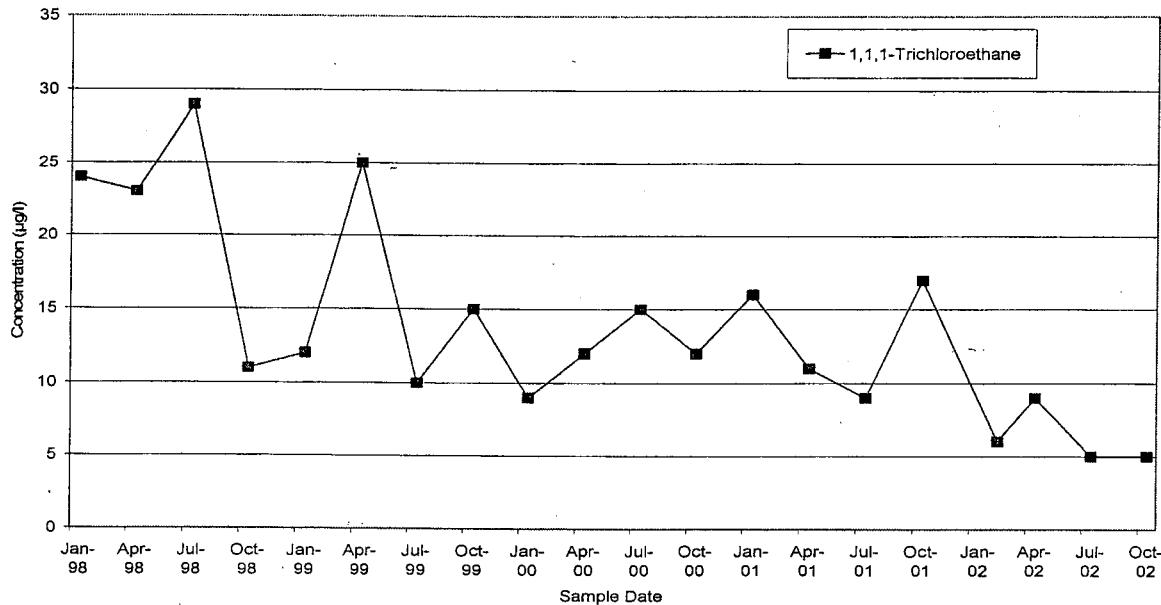
VINYL CHLORIDE
Cleanup Level (ESP) = 2 µg/l



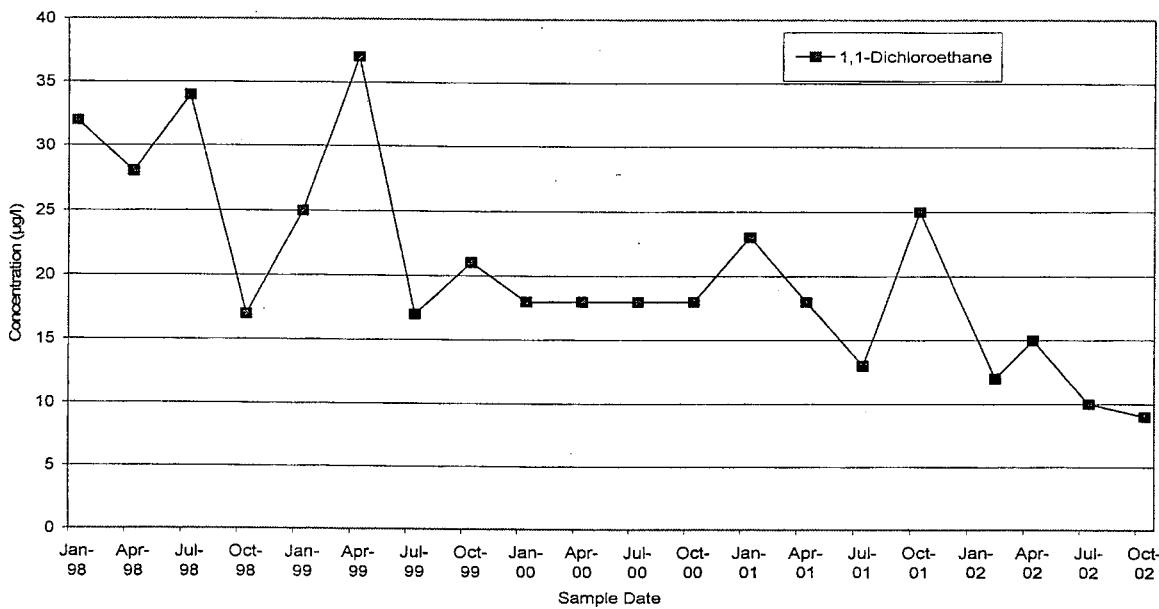
CHRIN BROTHERS LANDFILL
DM-10
TIME SERIES CHARTS

ORIGINAL

1,1,1-TRICHLOROETHANE
Cleanup Level (ESP) = 200 µg/l



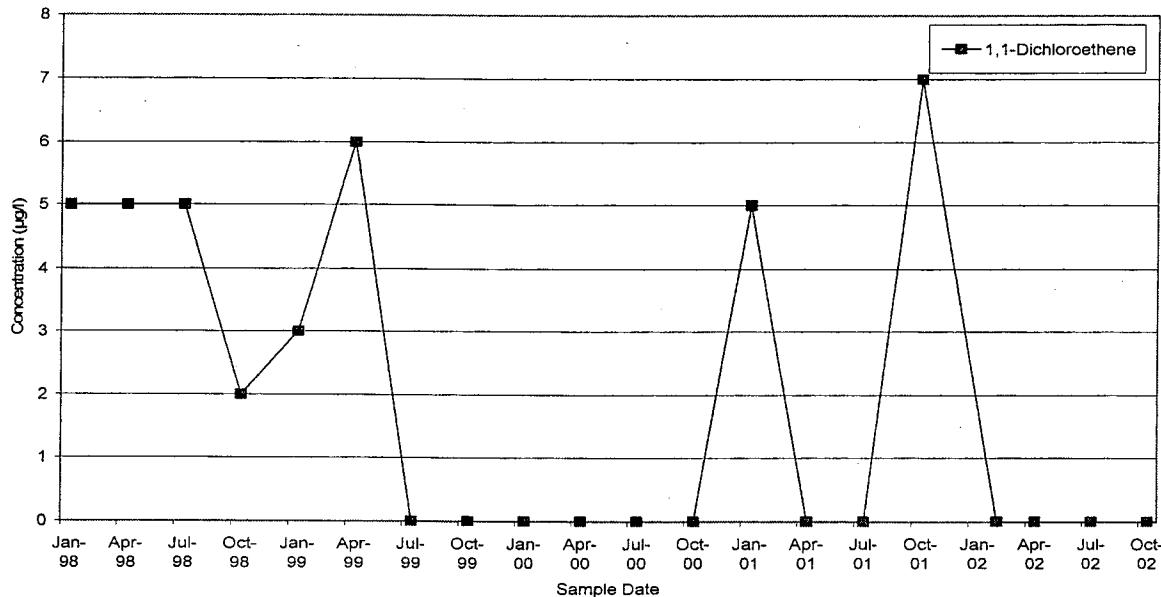
1,1-DICHLOROETHANE
Cleanup Level (ESP) = 27 µg/l



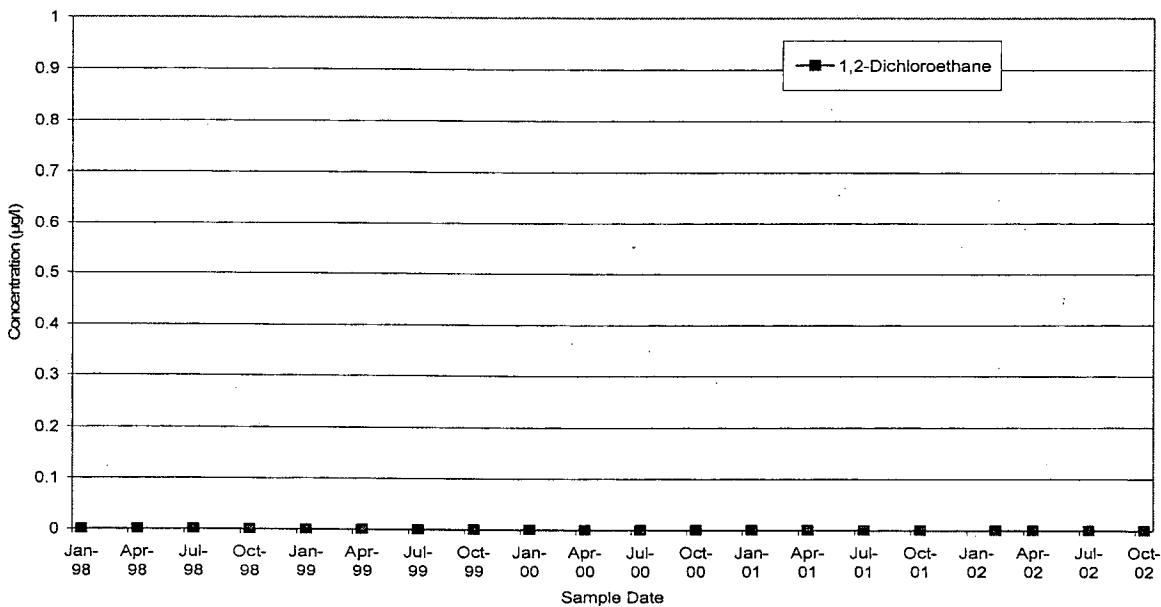
CHRIN BROTHERS LANDFILL
DM-10
TIME SERIES CHARTS

ORIGINAL

1,1-DICHLOROETHENE
Cleanup Level (ESP) = 7 µg/l



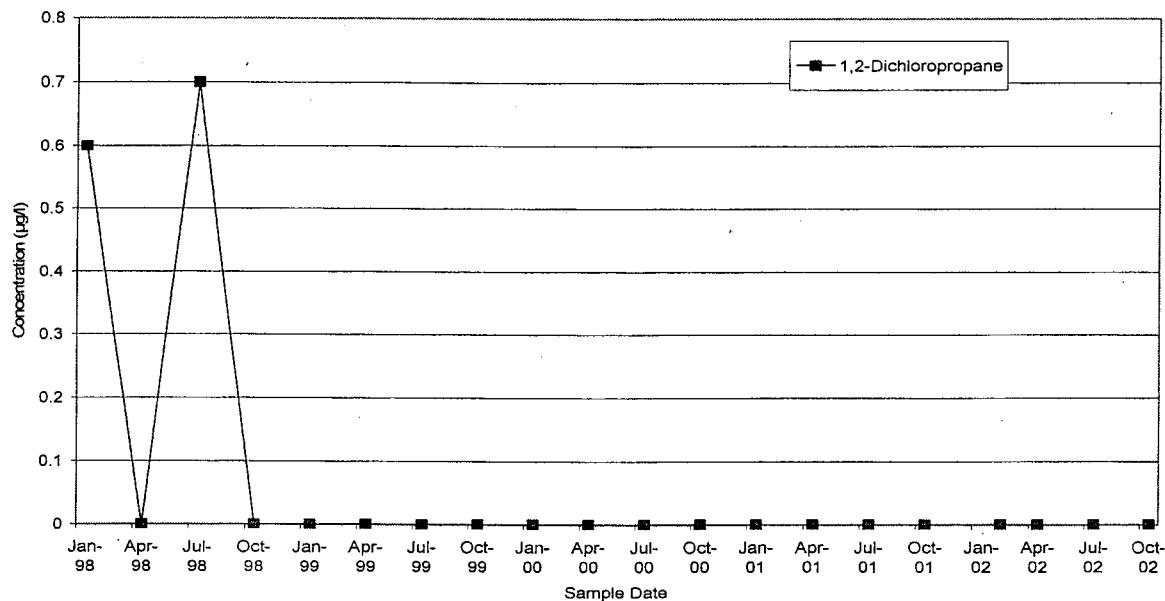
1,2-DICHLOROETHANE
Cleanup Level (ESP) = 5 µg/l



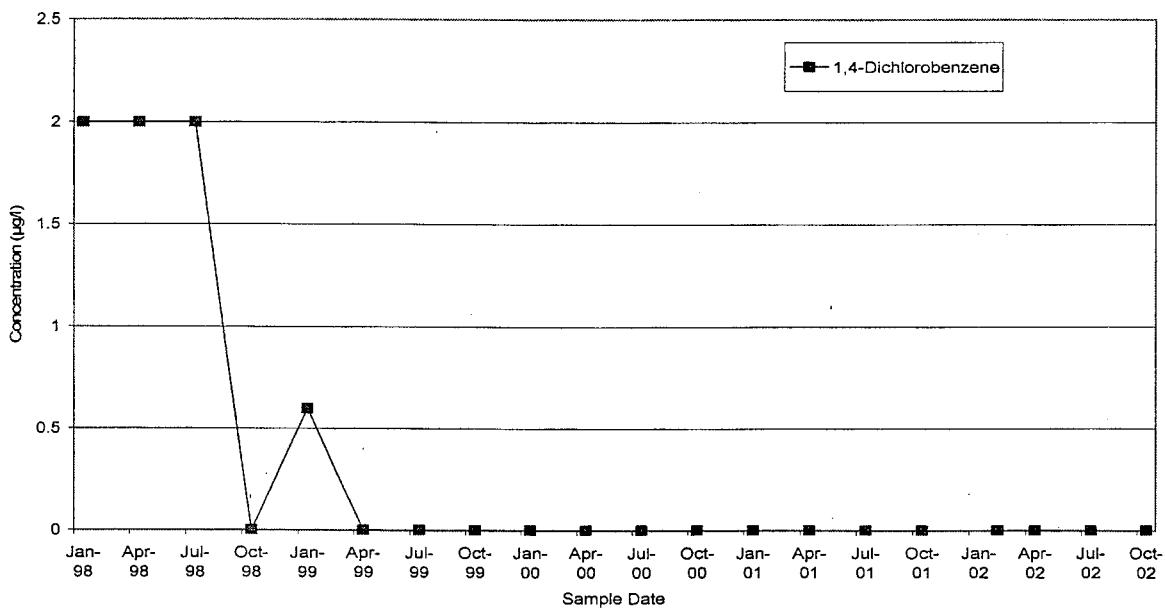
CHRIN BROTHERS LANDFILL
DM-10
TIME SERIES CHARTS

ORIGINAL

1,2-DICHLOROPROPANE
Cleanup Level (ESP) = 5 µg/l



1,4-DICHLOROBENZENE
Cleanup Level (ESP) = 75 µg/l

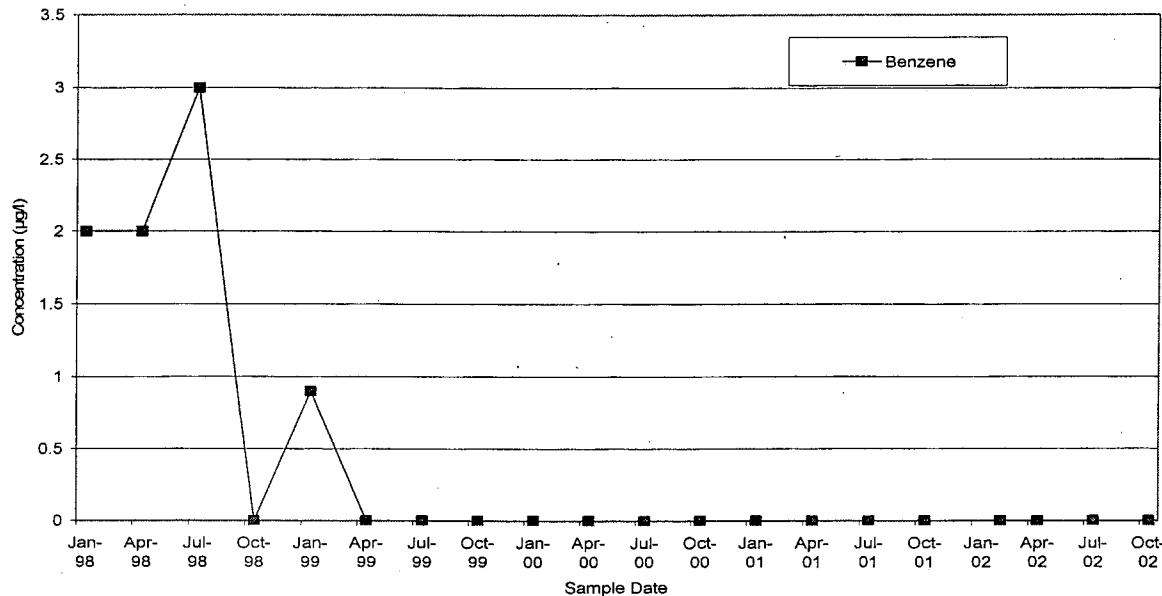


CHRIN BROTHERS LANDFILL
DM-10
TIME SERIES CHARTS

ORIGINAL

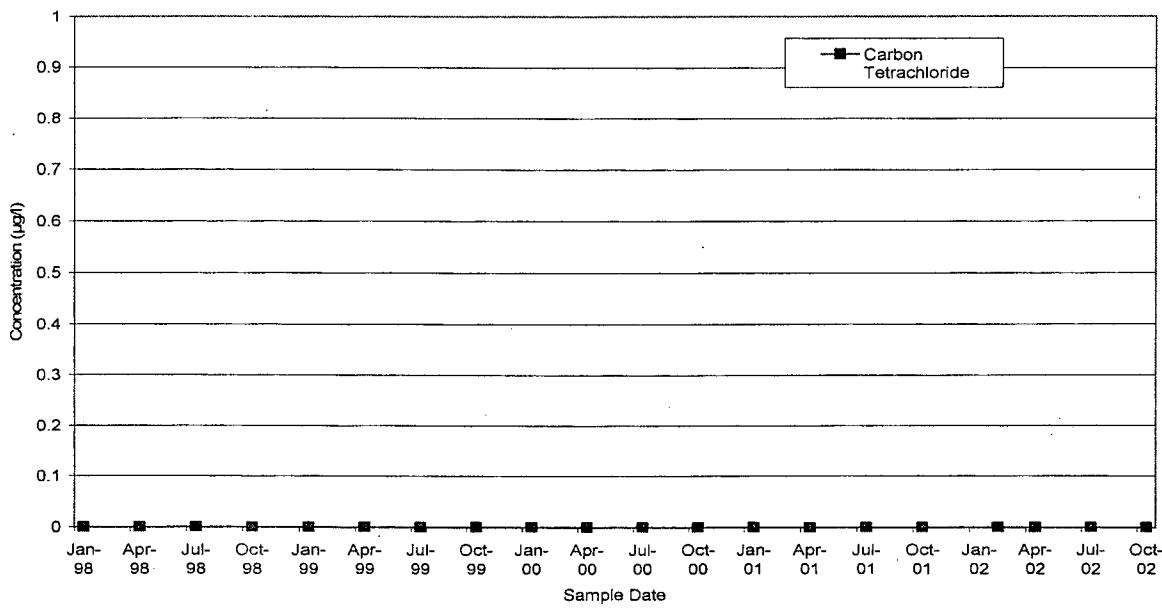
BENZENE

Cleanup Level (ESP) = 5 µg/l



CARBON TETRACHLORIDE

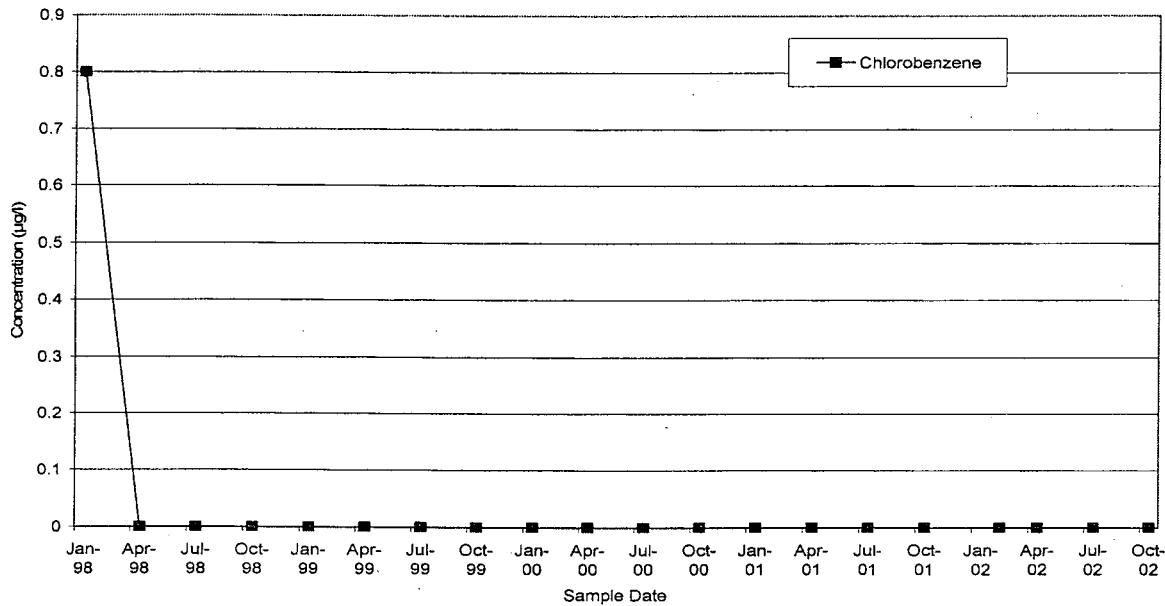
Cleanup Level (ESP) = 5 µg/l



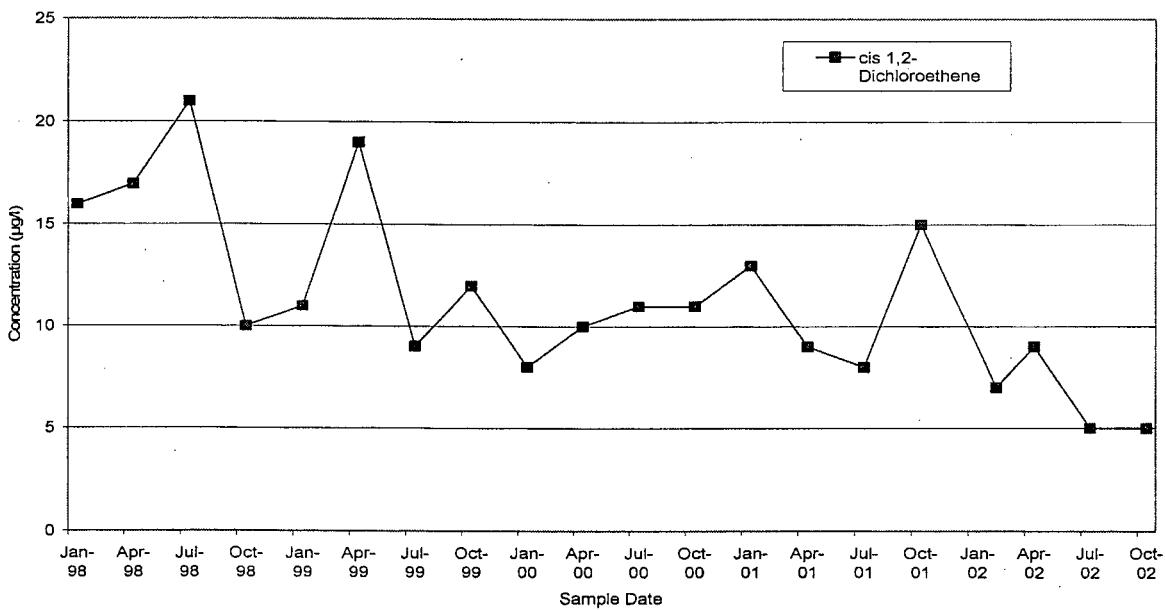
CHRIN BROTHERS LANDFILL
DM-10
TIME SERIES CHARTS

ORIGINAL

CHLOROBENZENE
Cleanup Level (ESP) = 100 µg/l



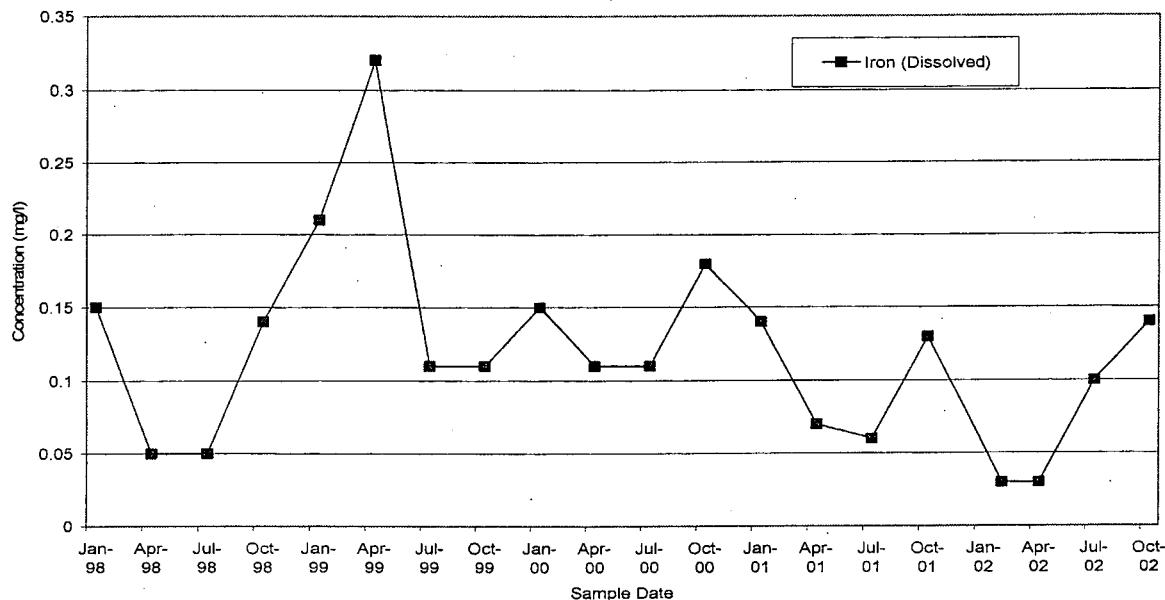
cis 1,2-DICHLOROETHENE
Cleanup Level (ESP) = 70 µg/l



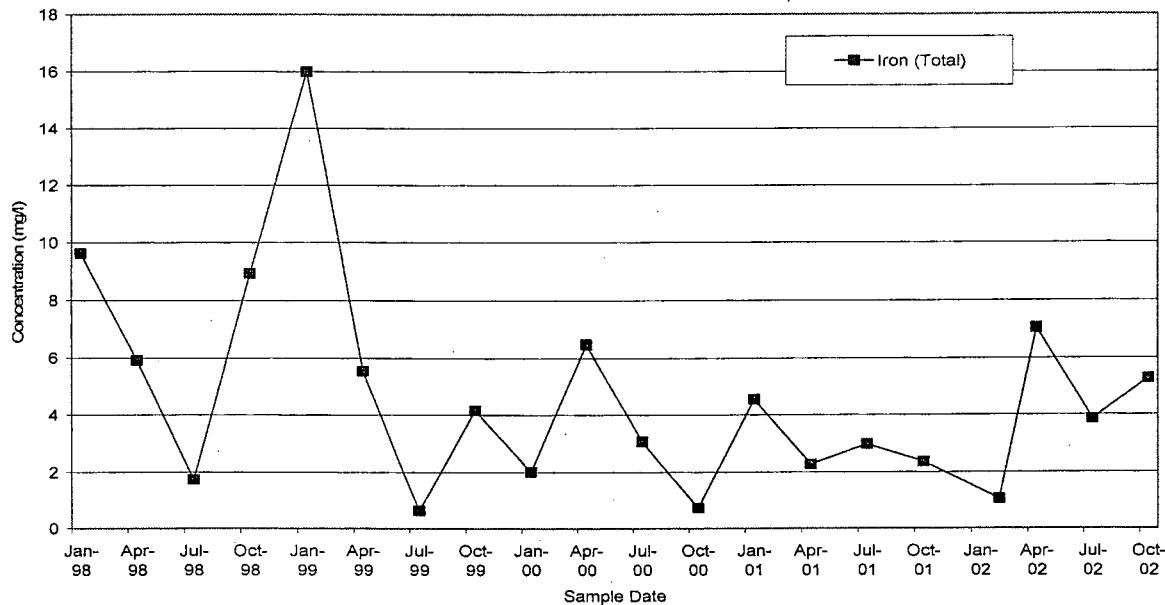
CHRIN BROTHERS LANDFILL
DM-10
TIME SERIES CHARTS

ORIGINAL

IRON, DISSOLVED



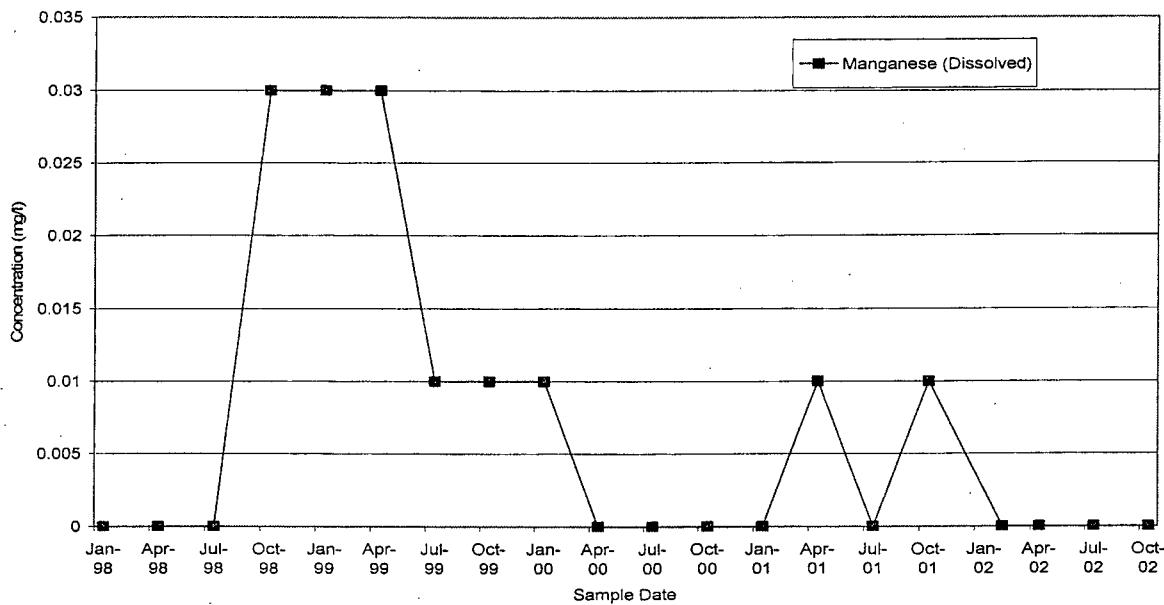
IRON, TOTAL



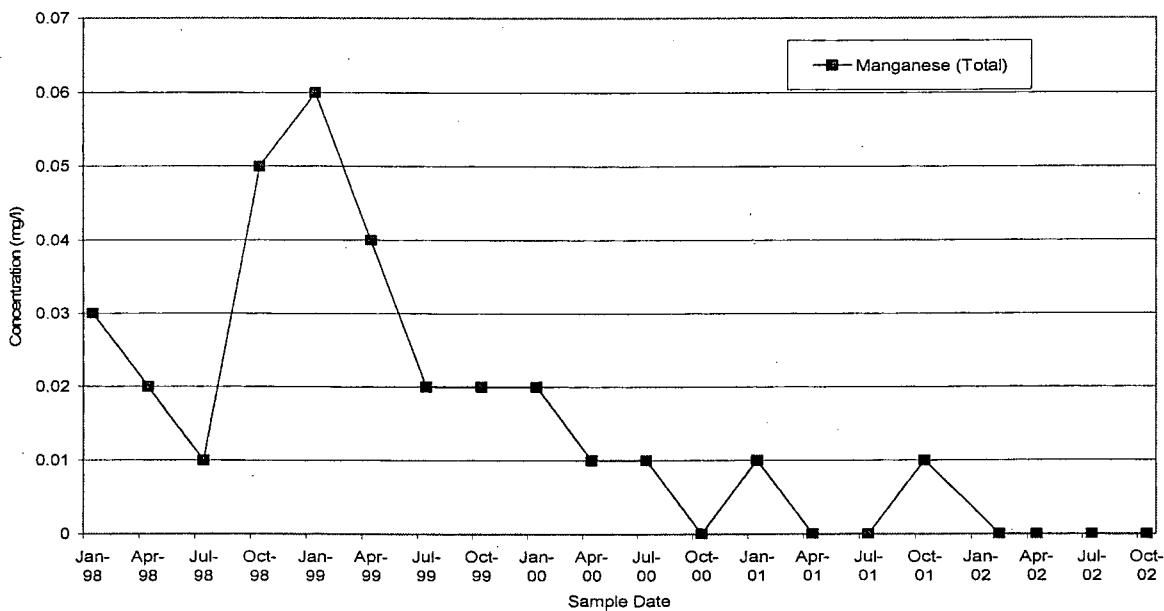
CHRIN BROTHERS LANDFILL
DM-10
TIME SERIES CHARTS

ORIGINAL

MANGANESE, DISSOLVED



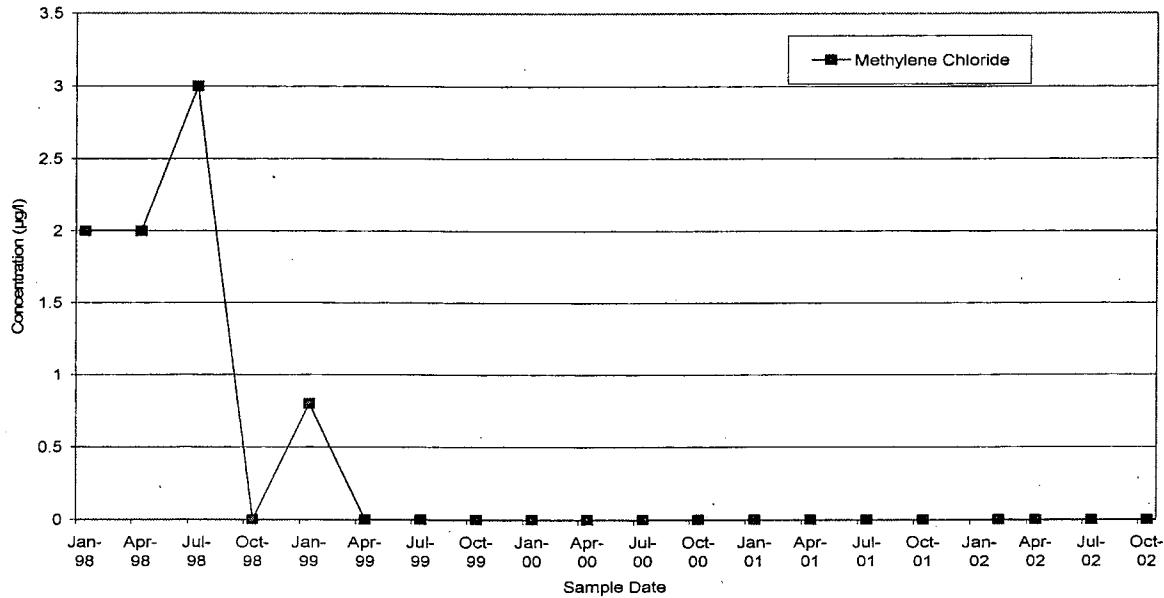
MANGANESE, TOTAL



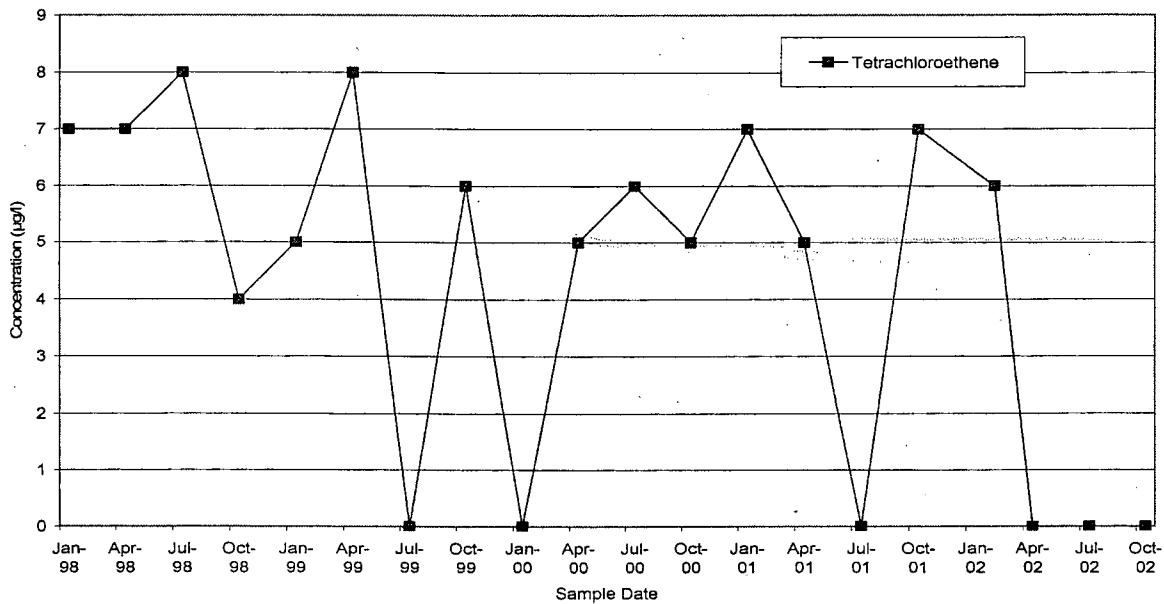
CHRIN BROTHERS LANDFILL
DM-10
TIME SERIES CHARTS

ORIGINAL

METHYLENE CHLORIDE
Cleanup Level (ESP) = 5 µg/l



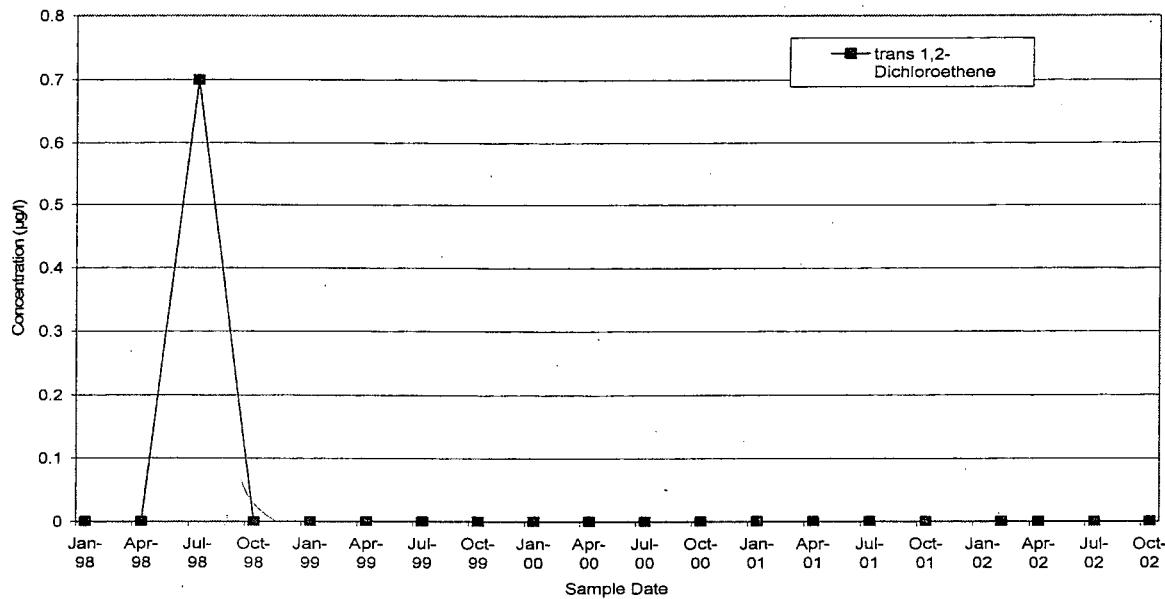
TETRACHLOROETHENE
Cleanup Level (ESP) = 5 µg/l



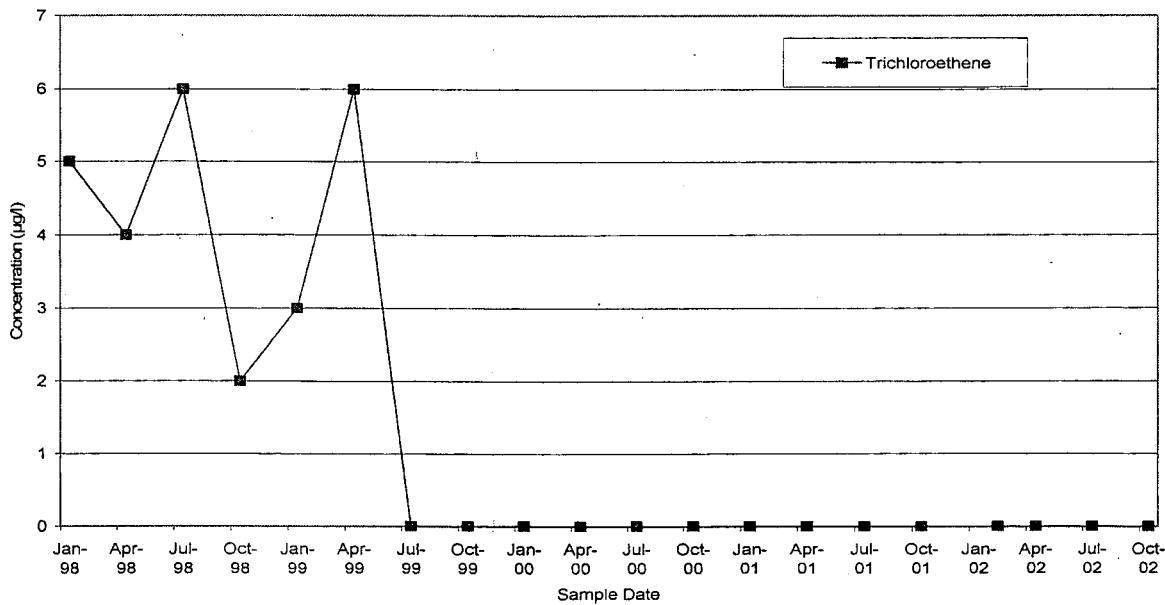
CHRIN BROTHERS LANDFILL
DM-10
TIME SERIES CHARTS

ORIGINAL

trans 1,2-DICHLOROETHENE
Cleanup Level (ESP) = 100 µg/l



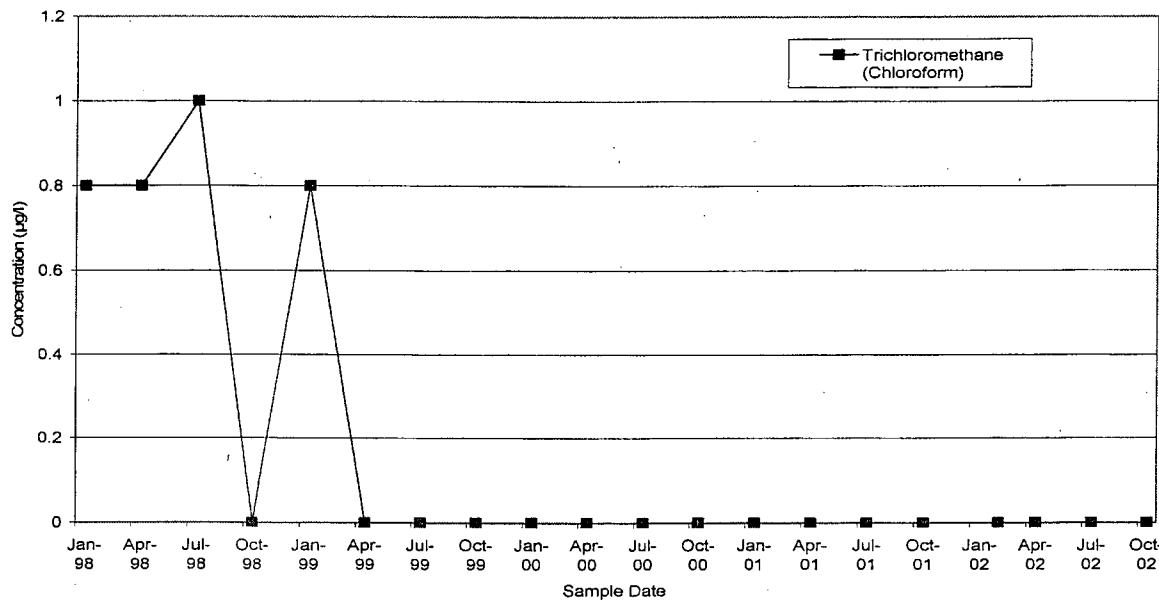
TRICHLOROETHENE
Cleanup Level (ESP) = 5 µg/l



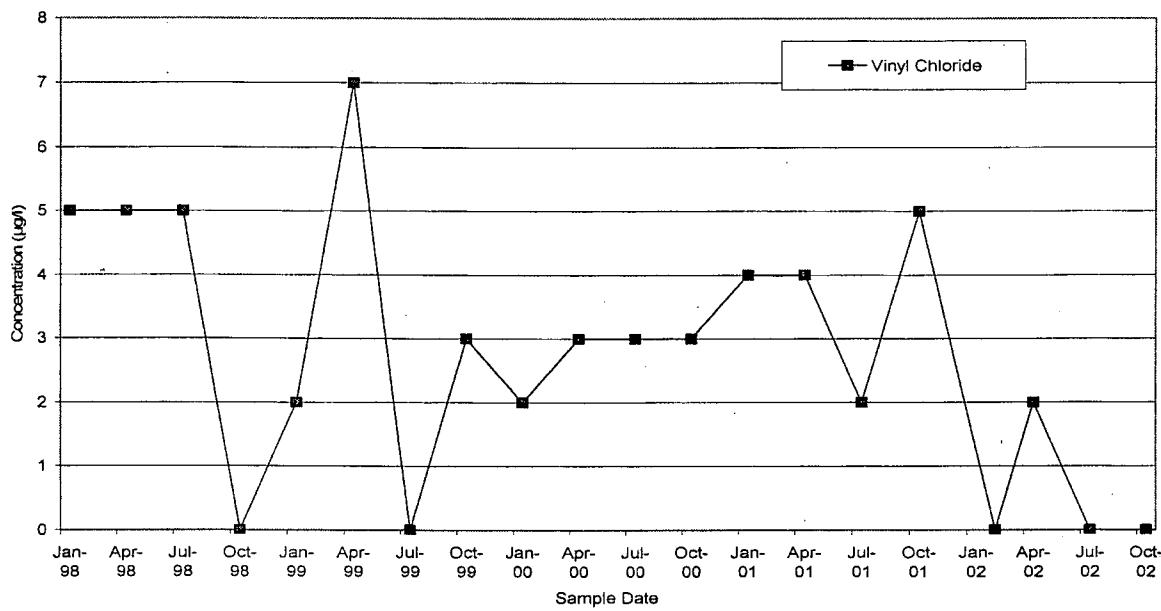
CHRIN BROTHERS LANDFILL
DM-10
TIME SERIES CHARTS

ORIGINAL

TRICHLOROMETHANE
Cleanup Level (ESP) = 100 µg/l



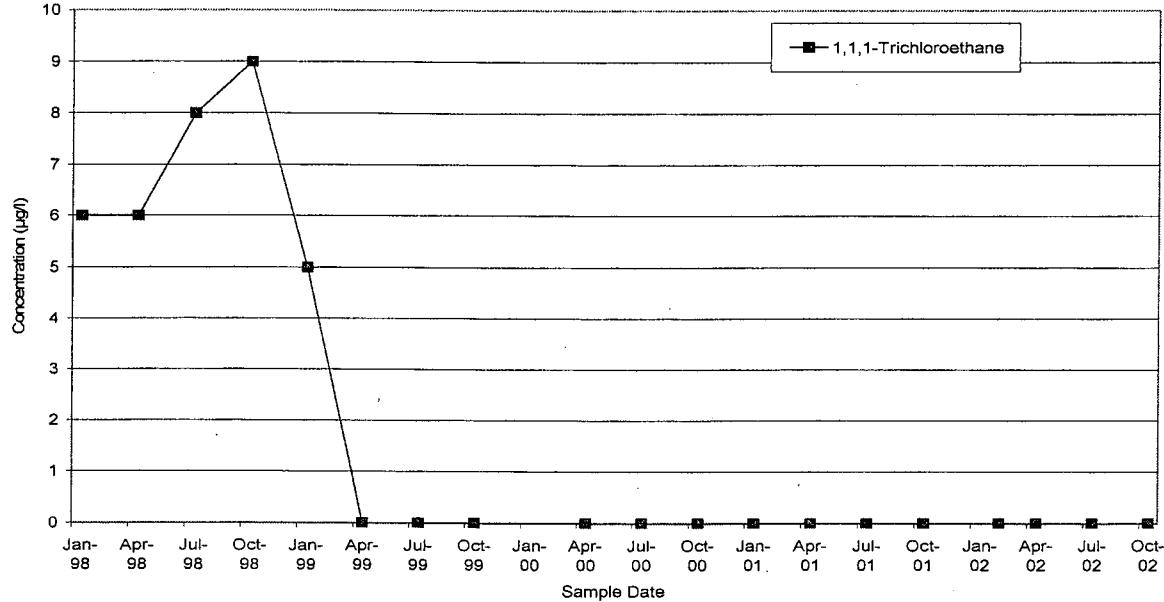
VINYL CHLORIDE
Cleanup Level (ESP) = 2 µg/l



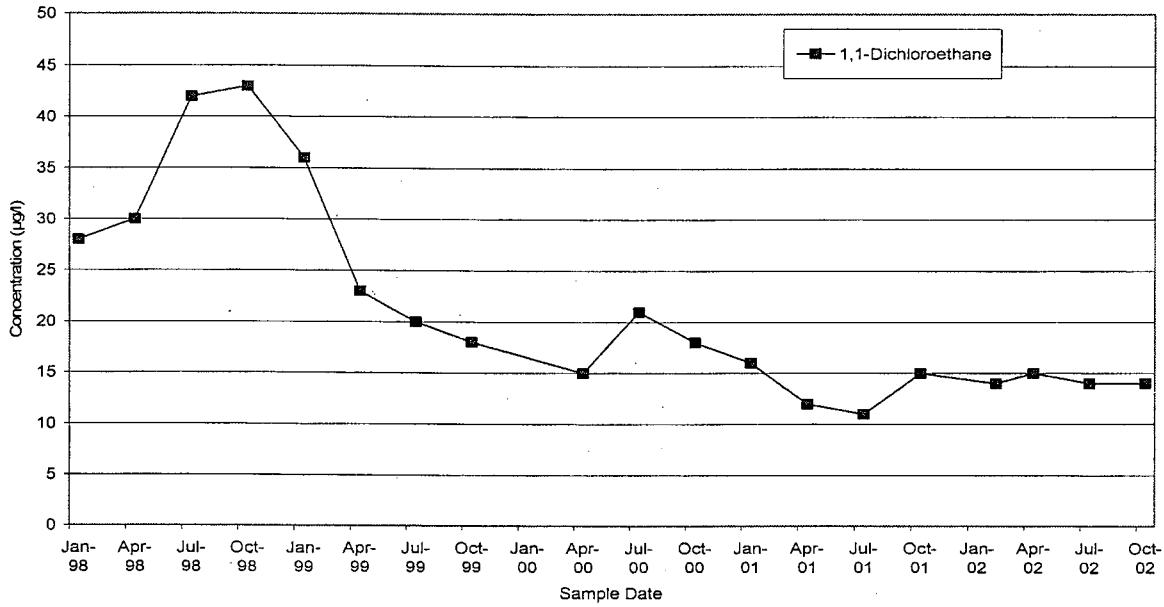
CHRIN BROTHERS LANDFILL
DM-11
TIME SERIES CHARTS

ORIGINAL

1,1,1-TRICHLOROETHANE
Cleanup Level (ESP) = 200 µg/l



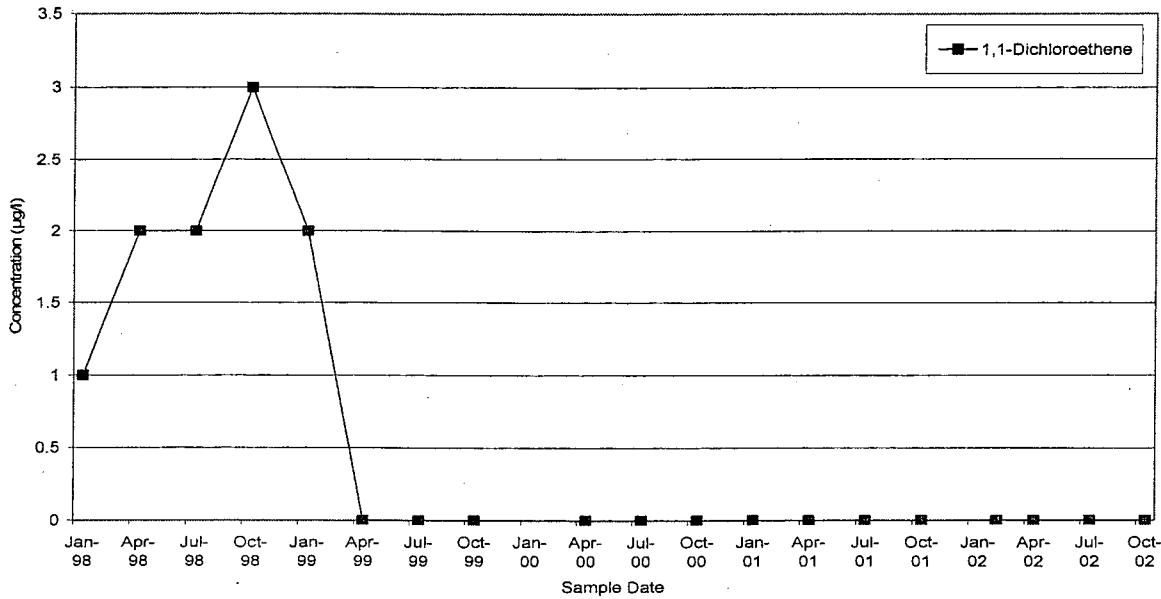
1,1-DICHLOROETHANE
Cleanup Level (ESP) = 27 µg/l



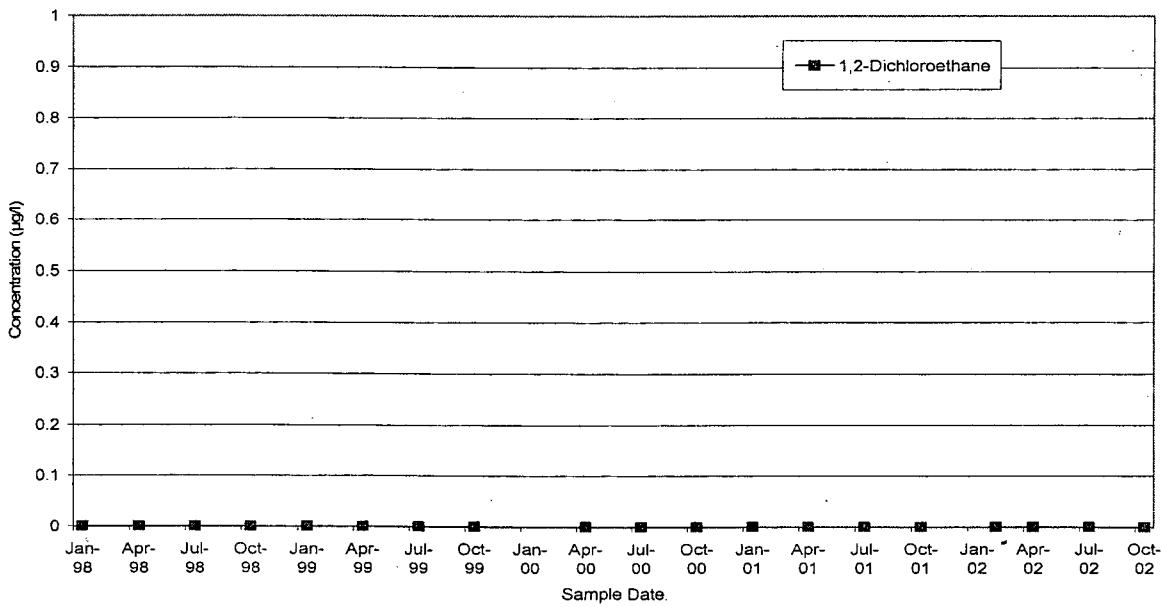
CHRIN BROTHERS LANDFILL
DM-11
TIME SERIES CHARTS

ORIGINAL

1,1-DICHLOROETHENE
Cleanup Level (ESP) = 7 µg/l



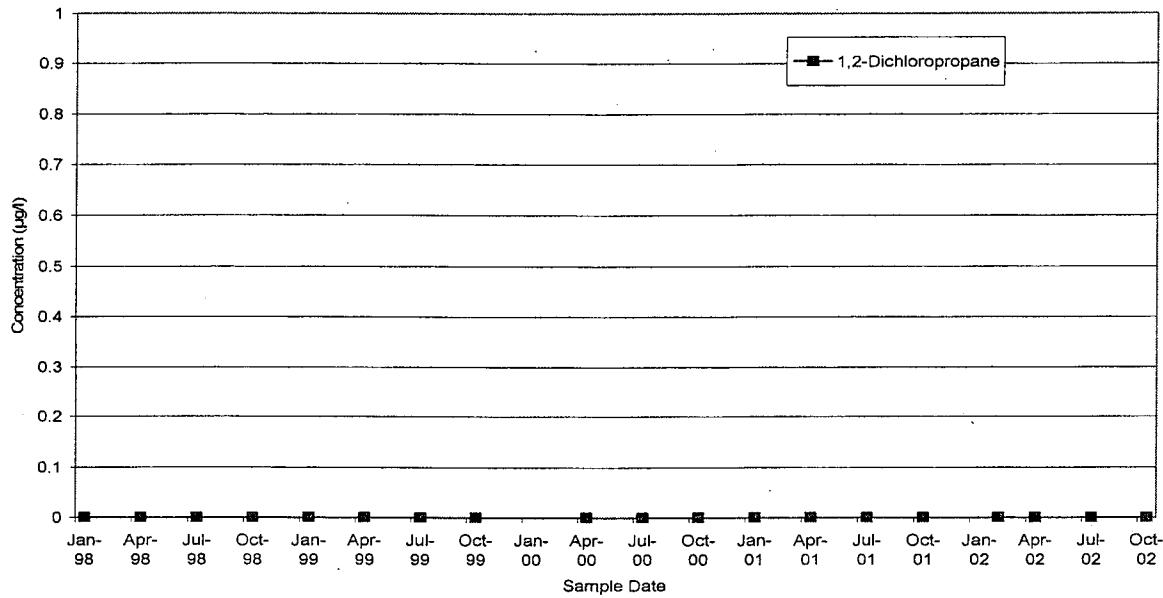
1,2-DICHLOROETHANE
Cleanup Level (ESP) = 5 µg/l



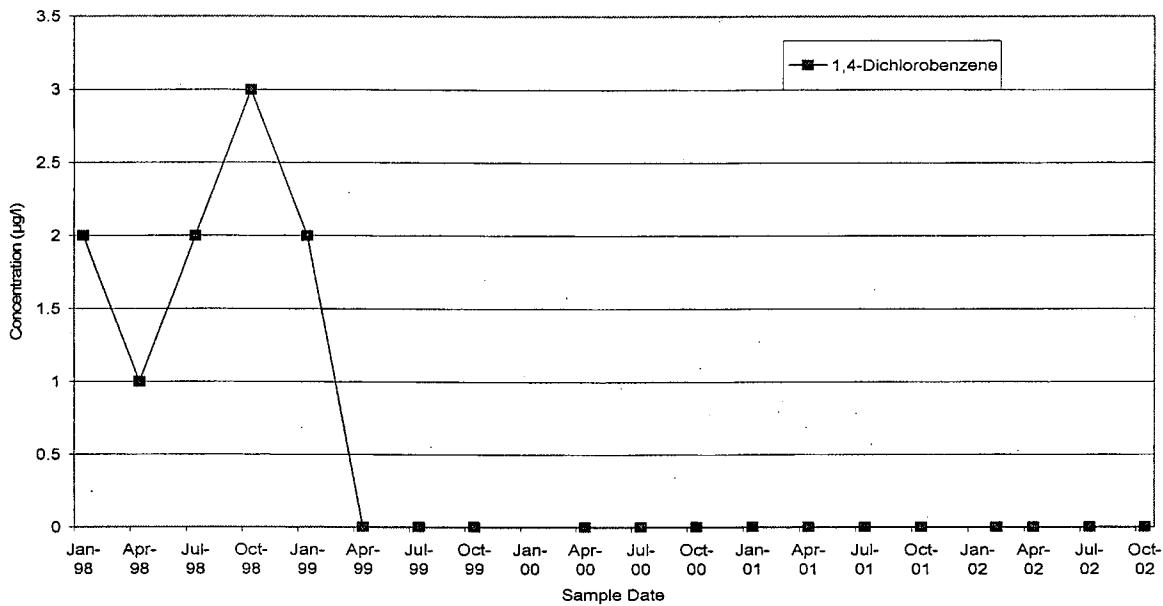
CHRIN BROTHERS LANDFILL
DM-11
TIME SERIES CHARTS

ORIGINAL

1,2-DICHLOROPROPANE
Cleanup Level (ESP) = 5 µg/l



1,4-DICHLOROBENZENE
Cleanup Level (ESP) = 75 µg/l

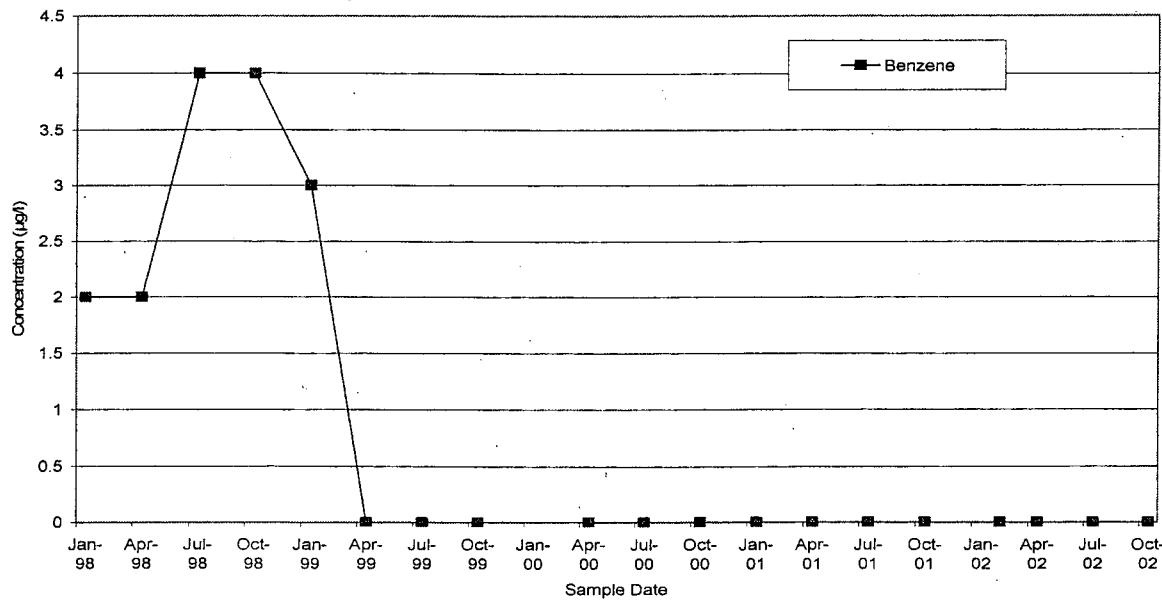


CHRIN BROTHERS LANDFILL
DM-11
TIME SERIES CHARTS

ORIGINAL

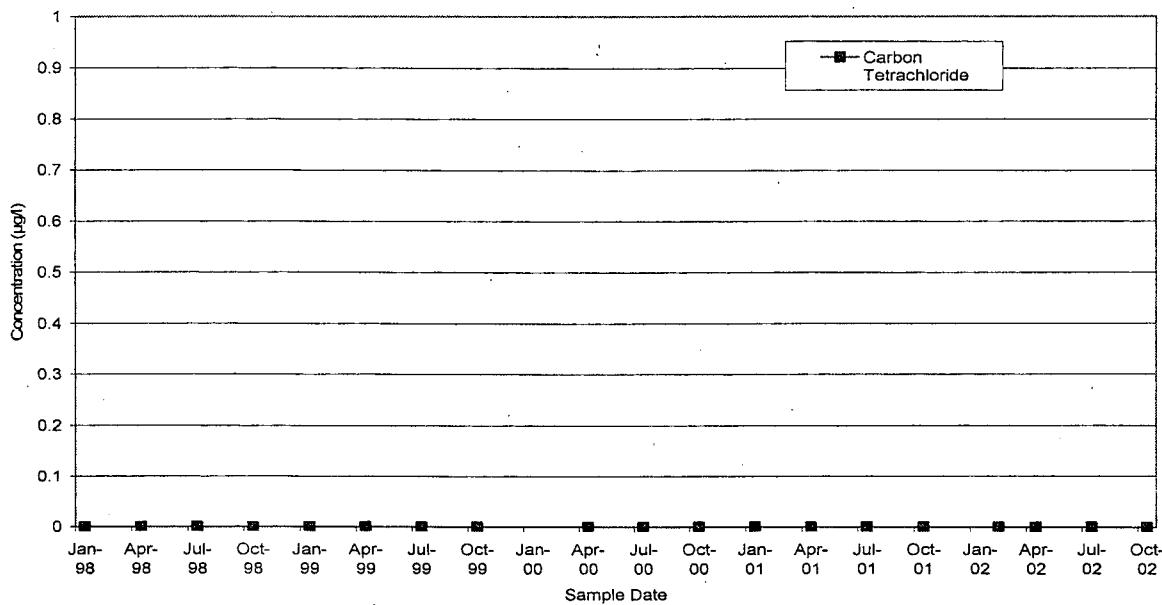
BENZENE

Cleanup Level (ESP) = 5 µg/l



CARBON TETRACHLORIDE

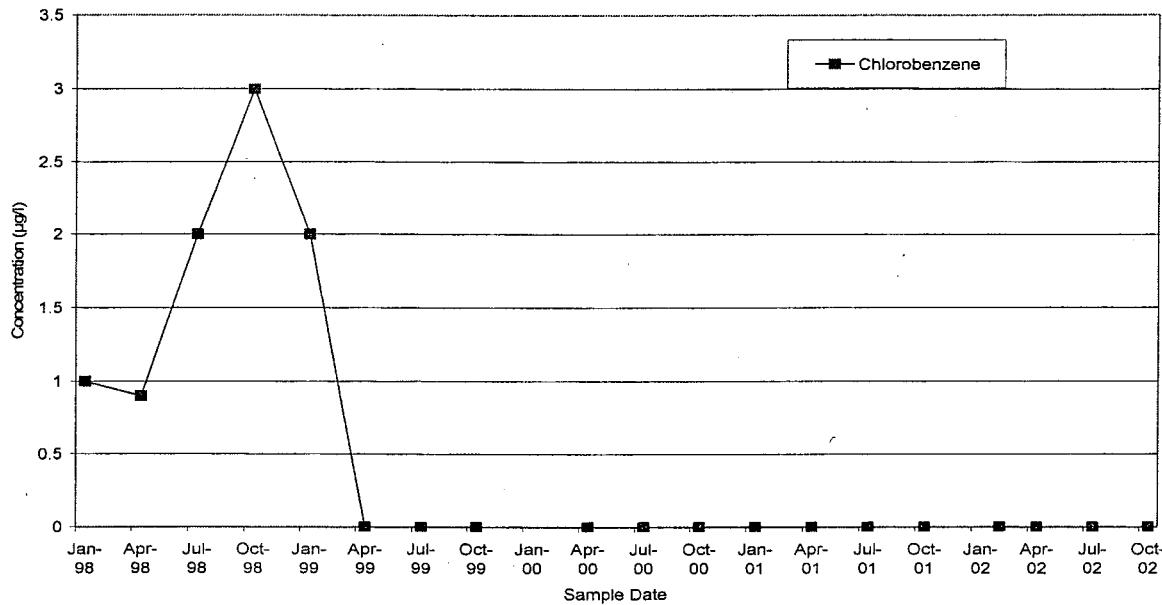
Cleanup Level (ESP) = 5 µg/l



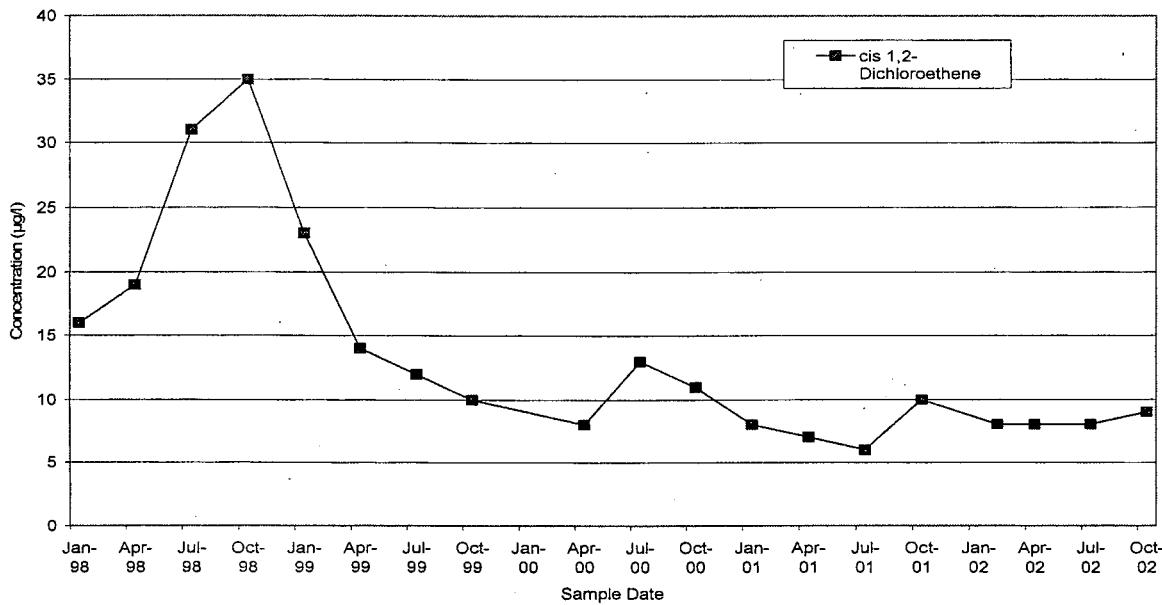
CHRIN BROTHERS LANDFILL
DM-11
TIME SERIES CHARTS

ORIGINAL

CHLOROBENZENE
Cleanup Level (ESP) = 100 µg/l



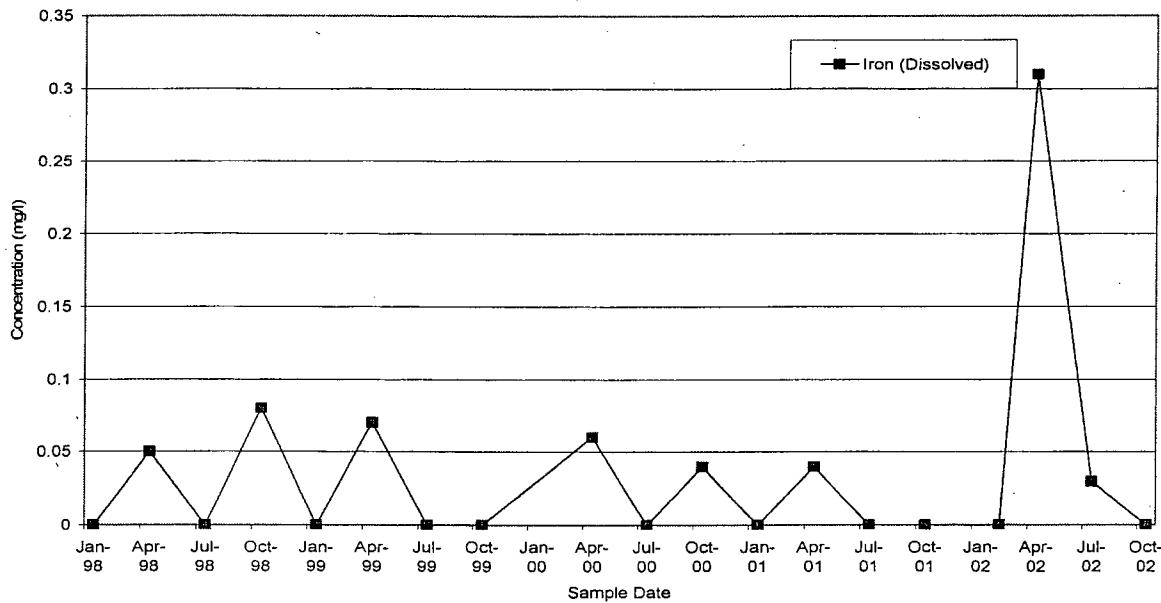
cis 1,2-DICHLOROETHENE
Cleanup Level (ESP) = 70 µg/l



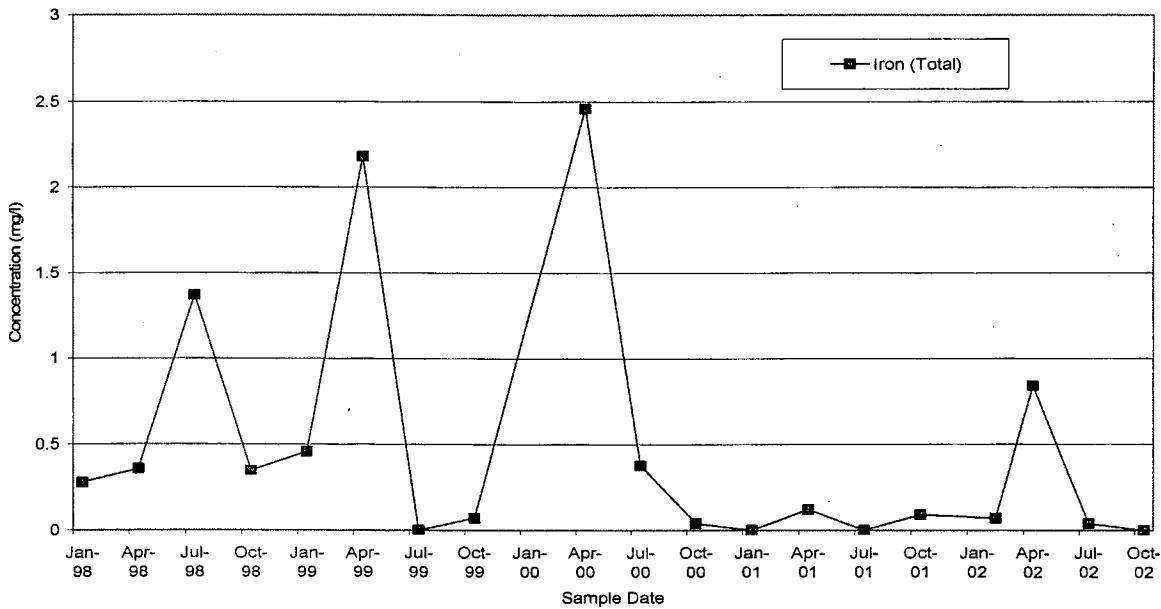
CHRIN BROTHERS LANDFILL
DM-11
TIME SERIES CHARTS

ORIGINAL

IRON, DISSOLVED



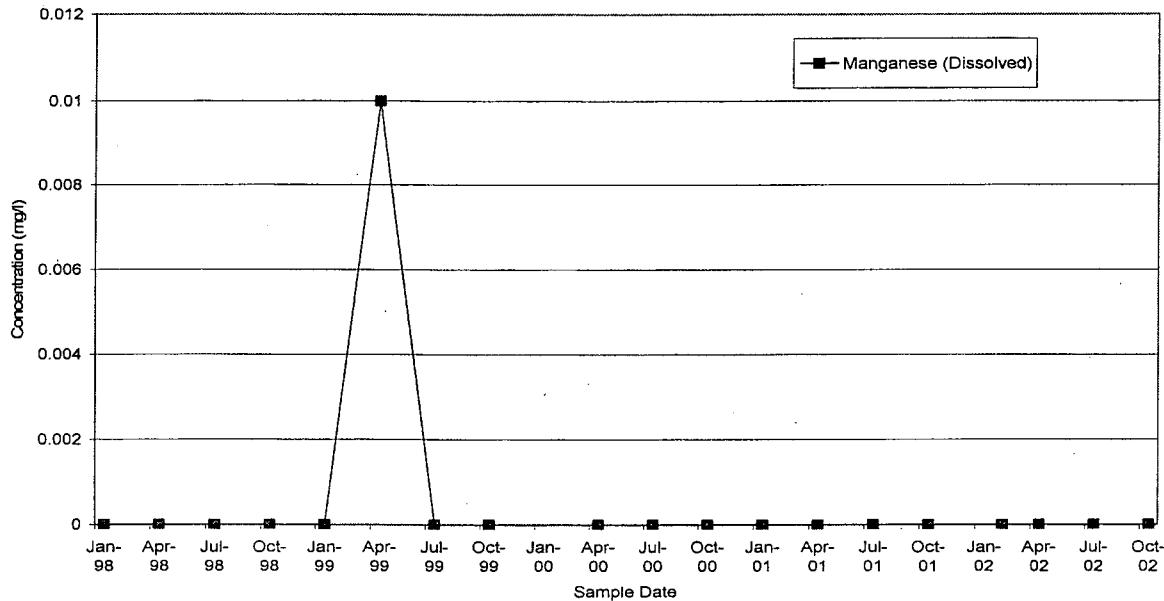
IRON, TOTAL



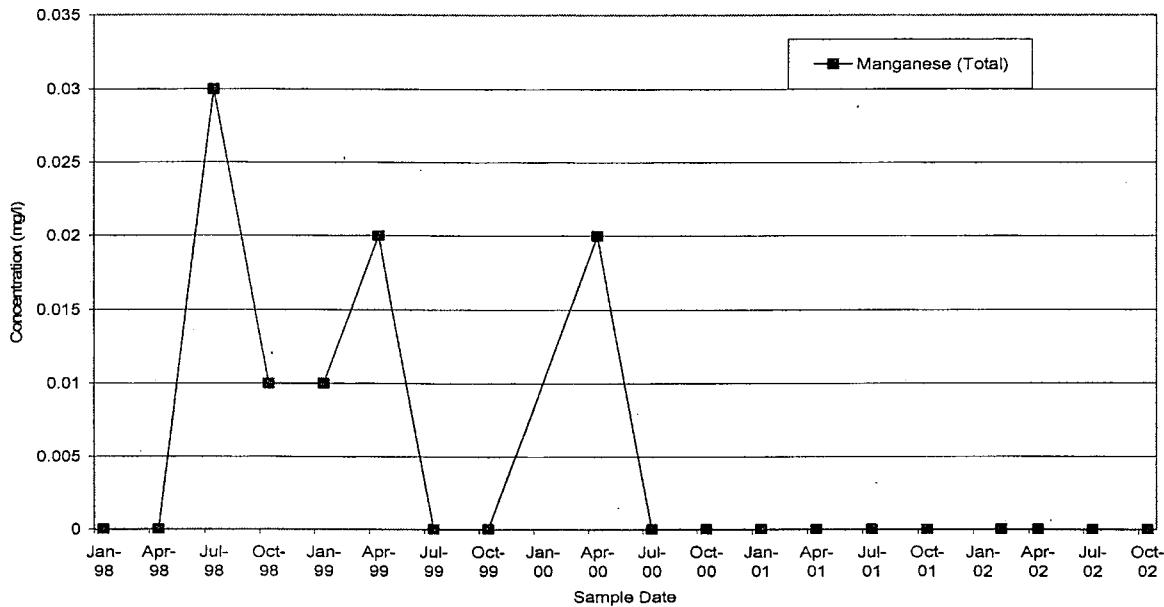
CHRIN BROTHERS LANDFILL
DM-11
TIME SERIES CHARTS

ORIGINAL

MANGANESE, DISSOLVED



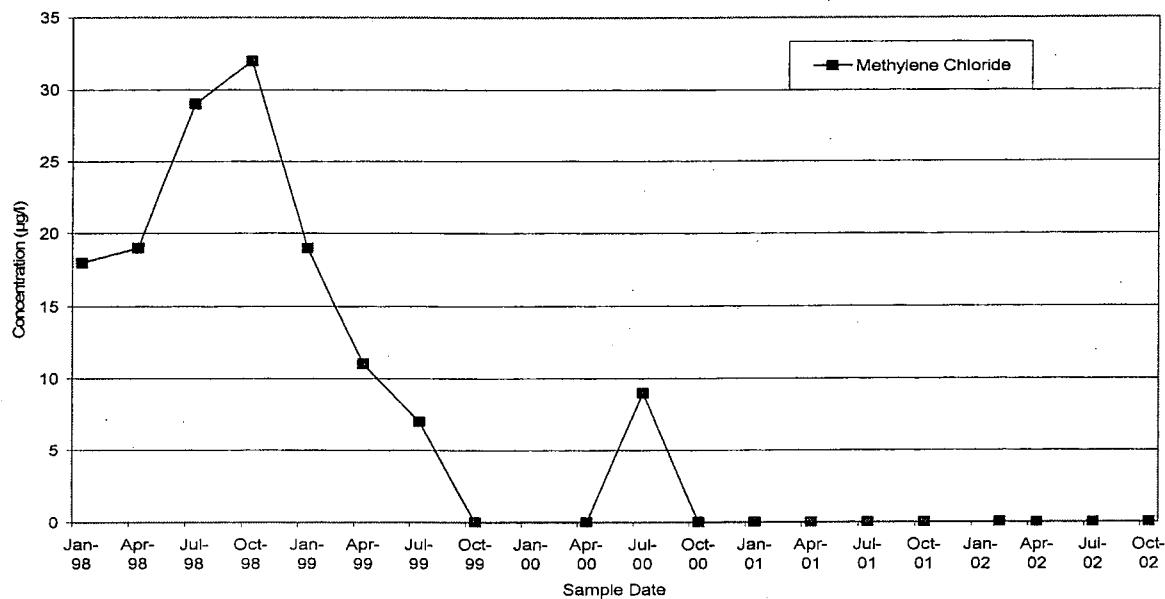
MANGANESE, TOTAL



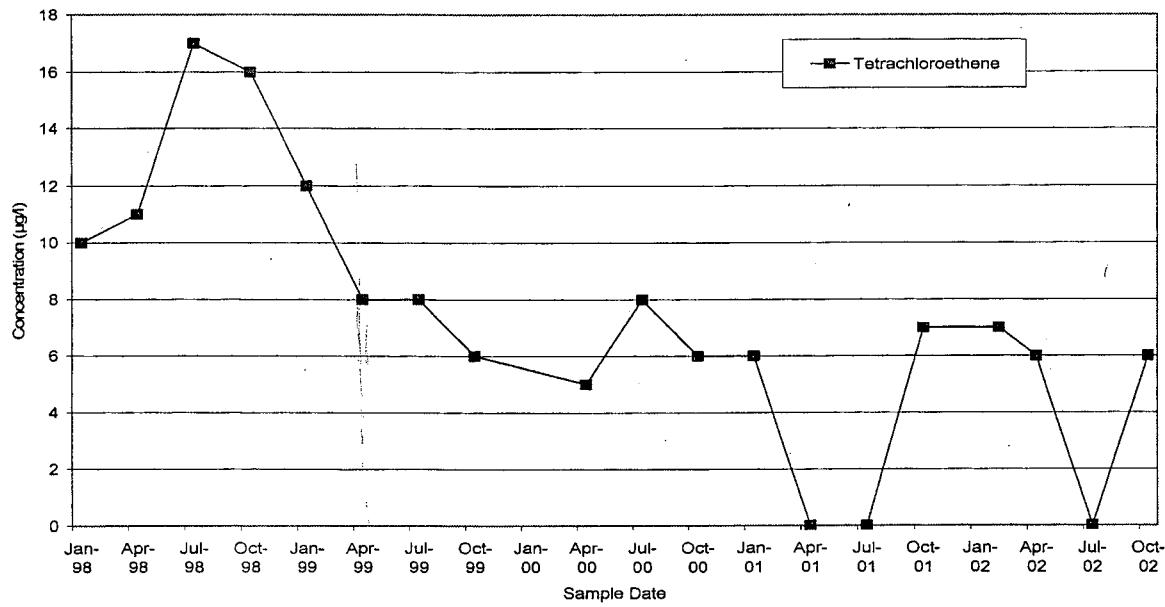
CHRIN BROTHERS LANDFILL
DM-11
TIME SERIES CHARTS

ORIGINAL

METHYLENE CHLORIDE
Cleanup Level (ESP) = 5 µg/l



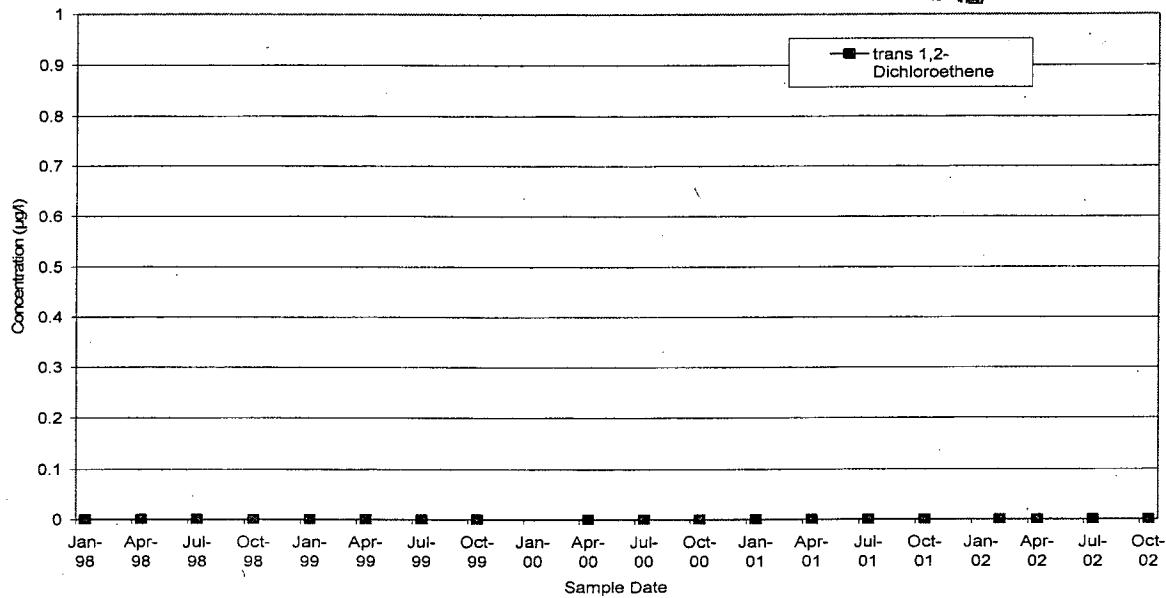
TETRACHLOROETHENE
Cleanup Level (ESP) = 5 µg/l



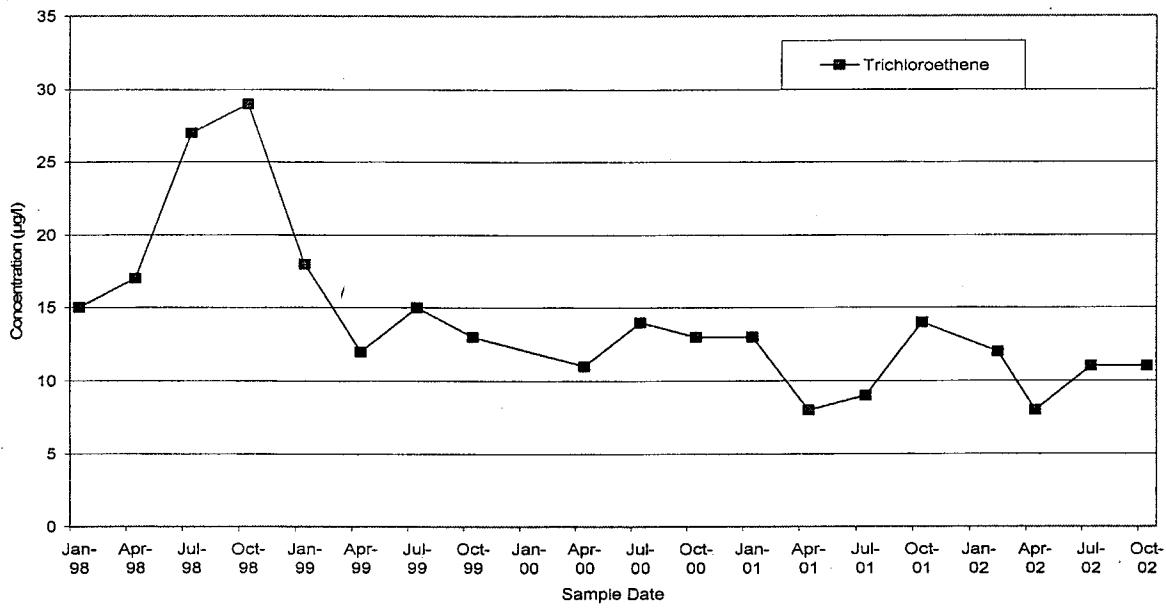
CHRIN BROTHERS LANDFILL
DM-11
TIME SERIES CHARTS

trans 1,2-DICHLOROETHENE
Cleanup Level (ESP) = 100 µg/l

ORIGINAL



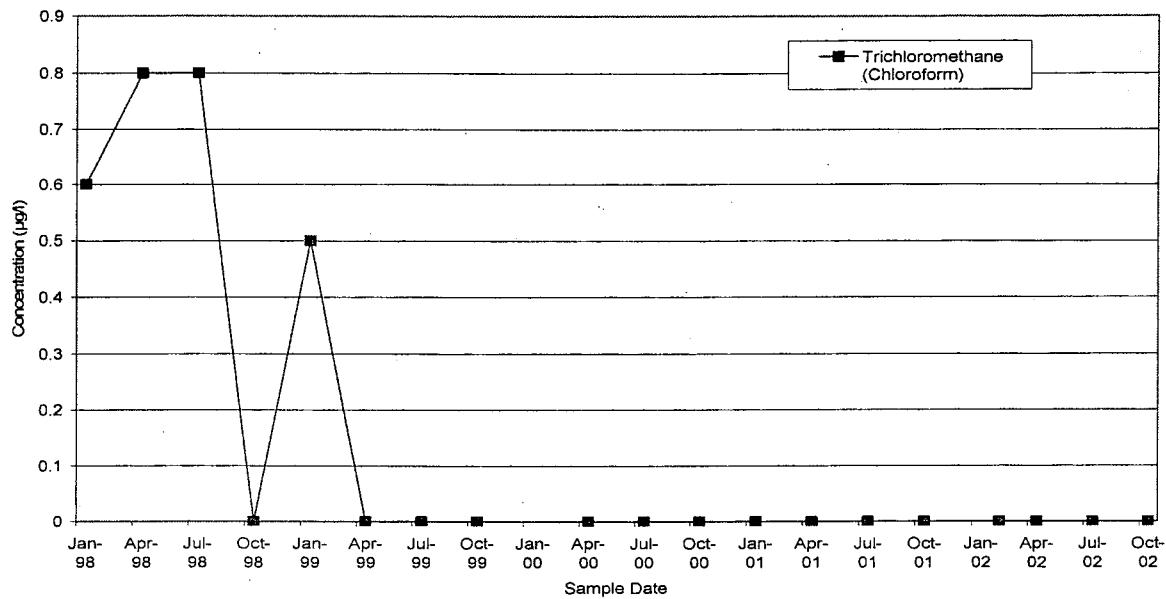
TRICHLOROETHENE
Cleanup Level (ESP) = 5 µg/l



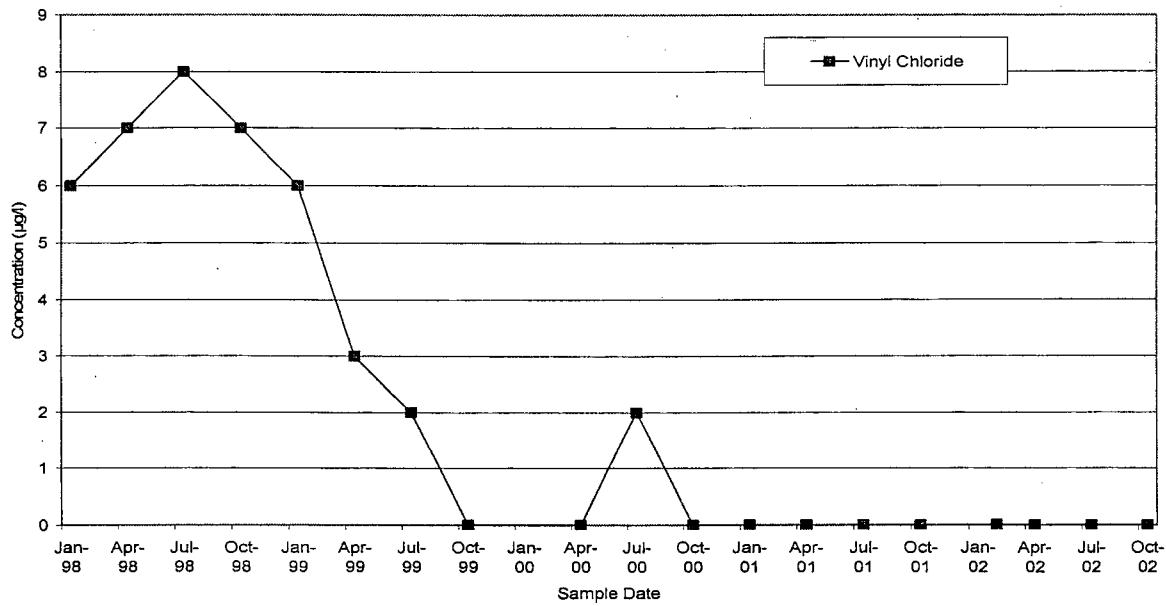
CHRIN BROTHERS LANDFILL
DM-11
TIME SERIES CHARTS

ORIGINAL

TRICHLOROMETHANE
Cleanup Level (ESP) = 100 µg/l

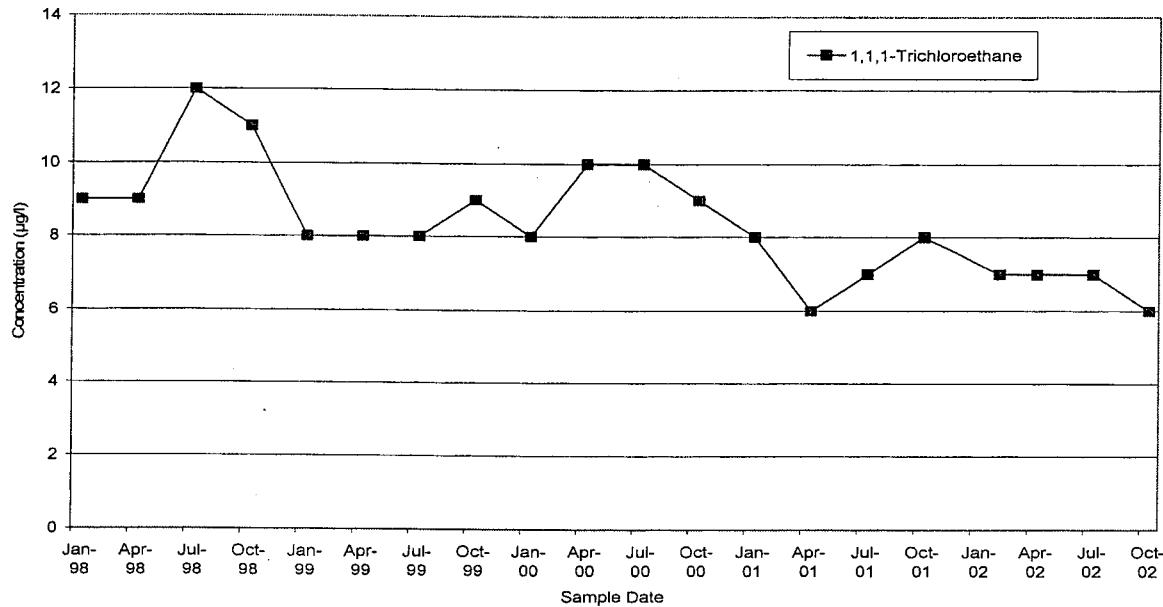


VINYL CHLORIDE
Cleanup Level (ESP) = 2 µg/l

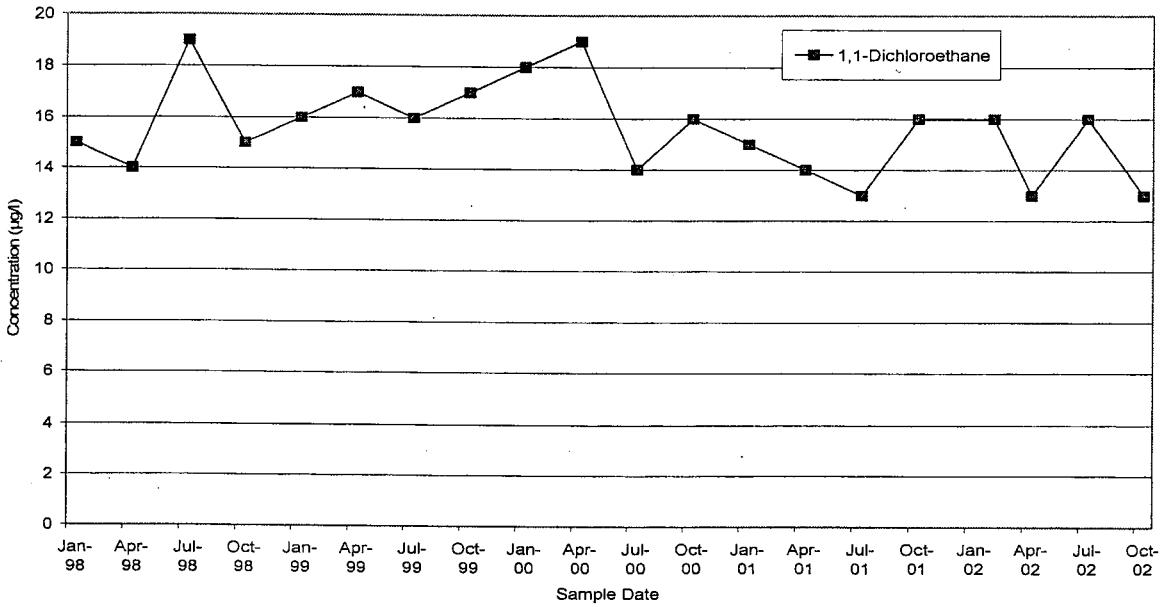


CHRIN BROTHERS LANDFILL
MW-1
TIME SERIES CHARTS

1,1,1-TRICHLOROETHANE
Cleanup Level (ESP) = 200 µg/l



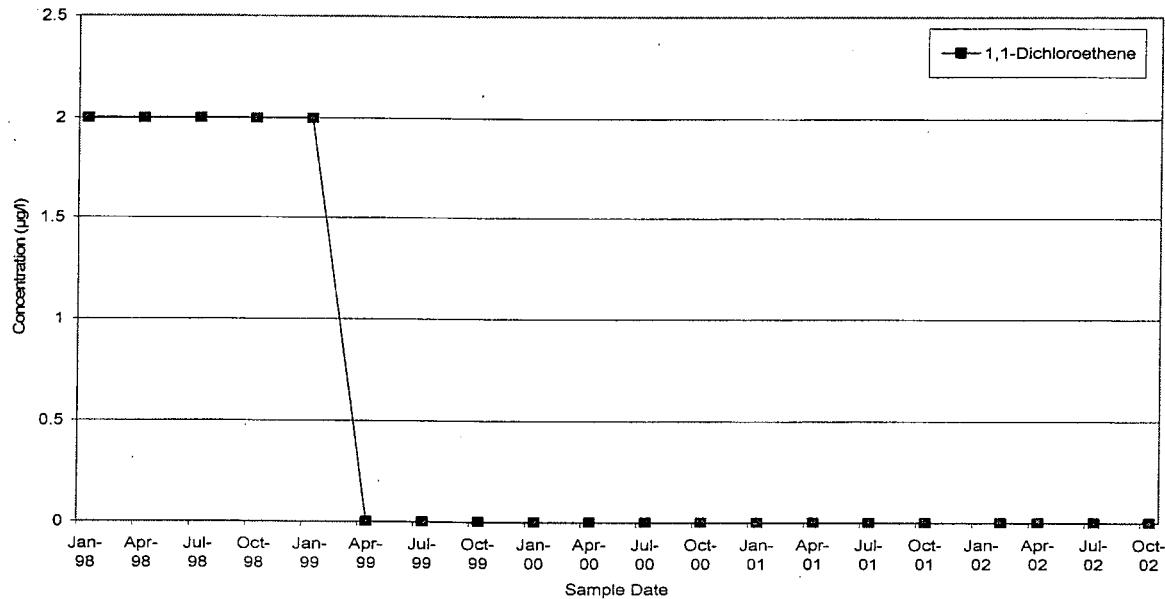
1,1-DICHLOROETHANE
Cleanup Level (ESP) = 27 µg/l



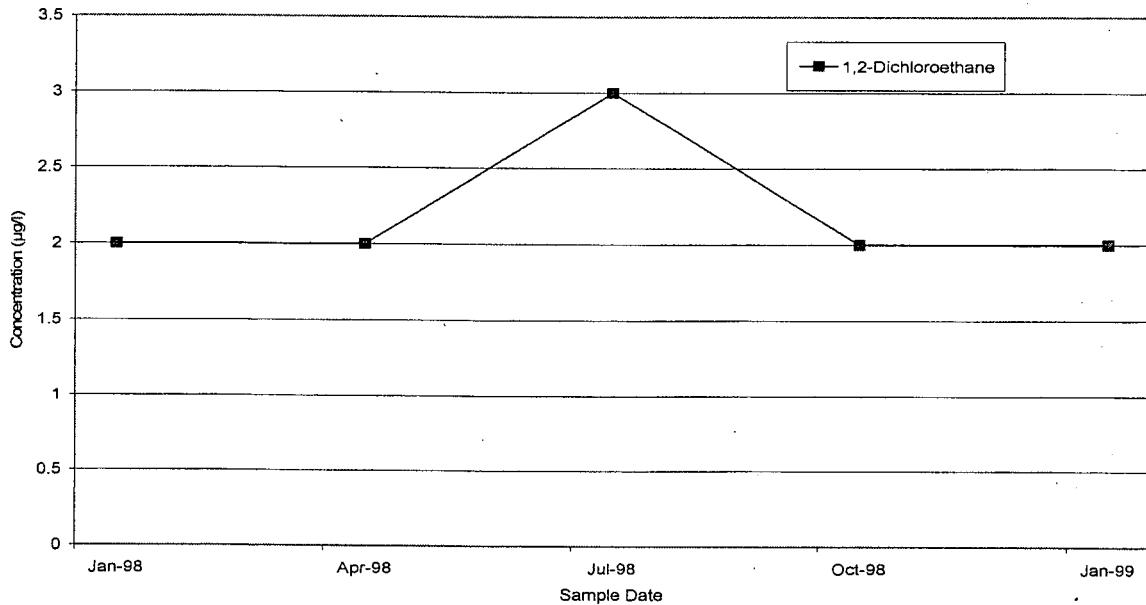
CHRIN BROTHERS LANDFILL
MW-1
TIME SERIES CHARTS

ORIGINAL

1,1-DICHLOROETHENE
Cleanup Level (ESP) = 7 µg/l



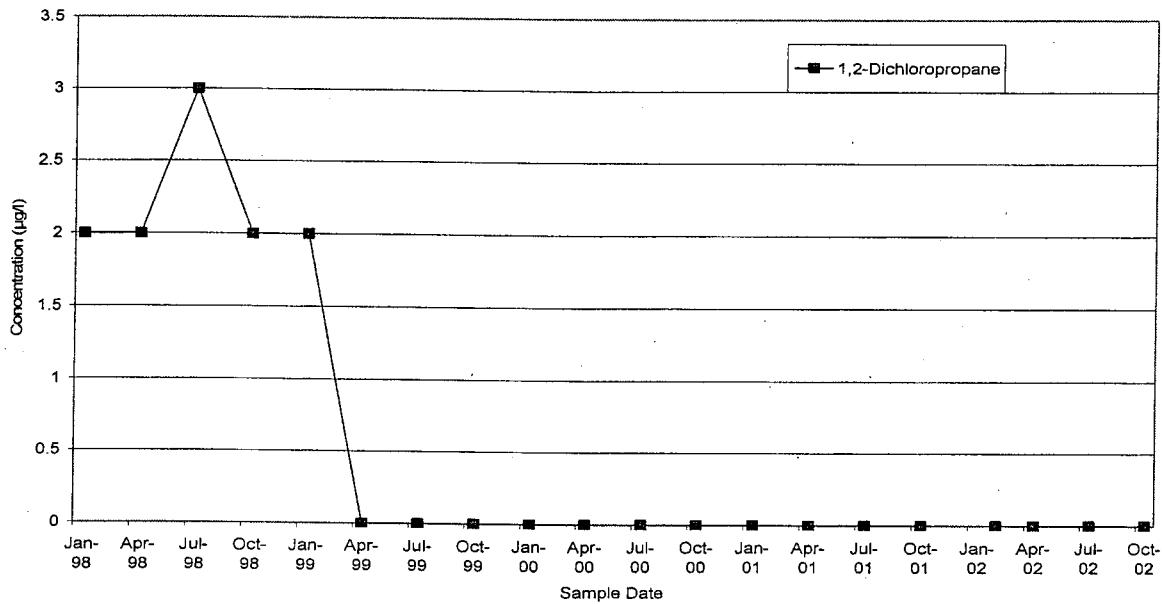
1,2-DICHLOROETHANE
Cleanup Level (ESP) = 5 µg/l



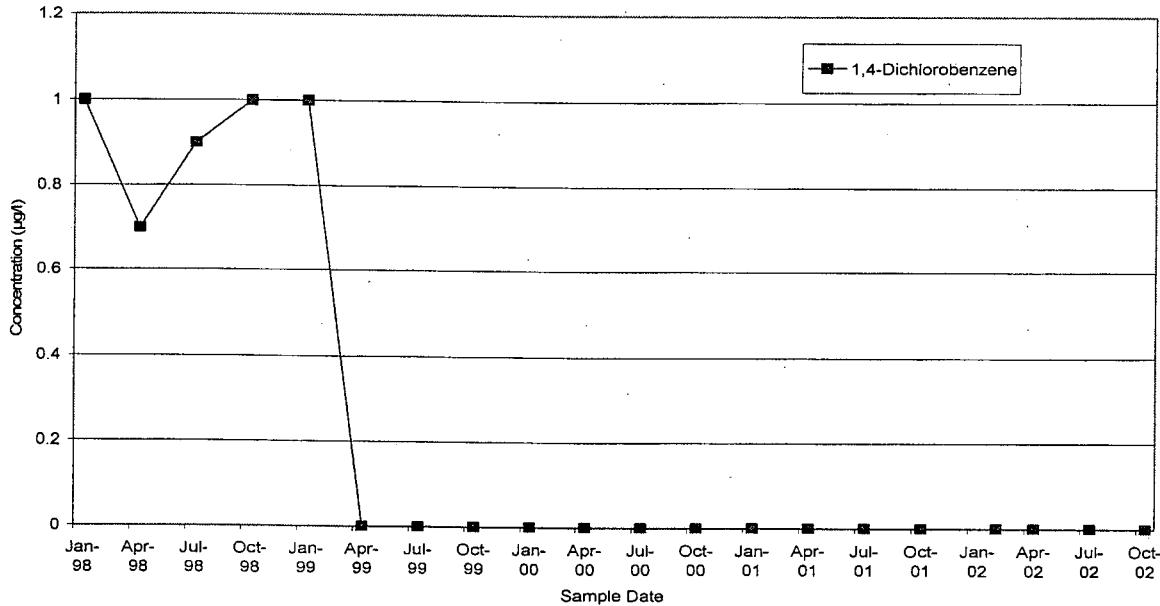
CHRIN BROTHERS LANDFILL
MW-1
TIME SERIES CHARTS

ORIGINAL

1,2-DICHLOROPROPANE
Cleanup Level (ESP) = 5 µg/l



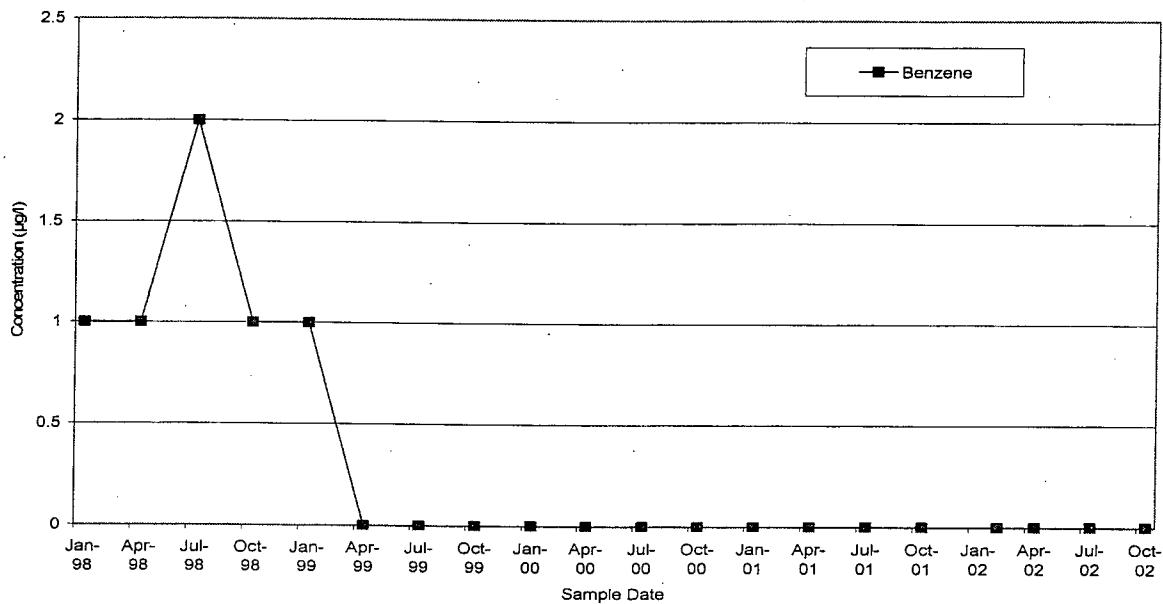
1,4-DICHLOROBENZENE
Cleanup Level (ESP) = 75 µg/l



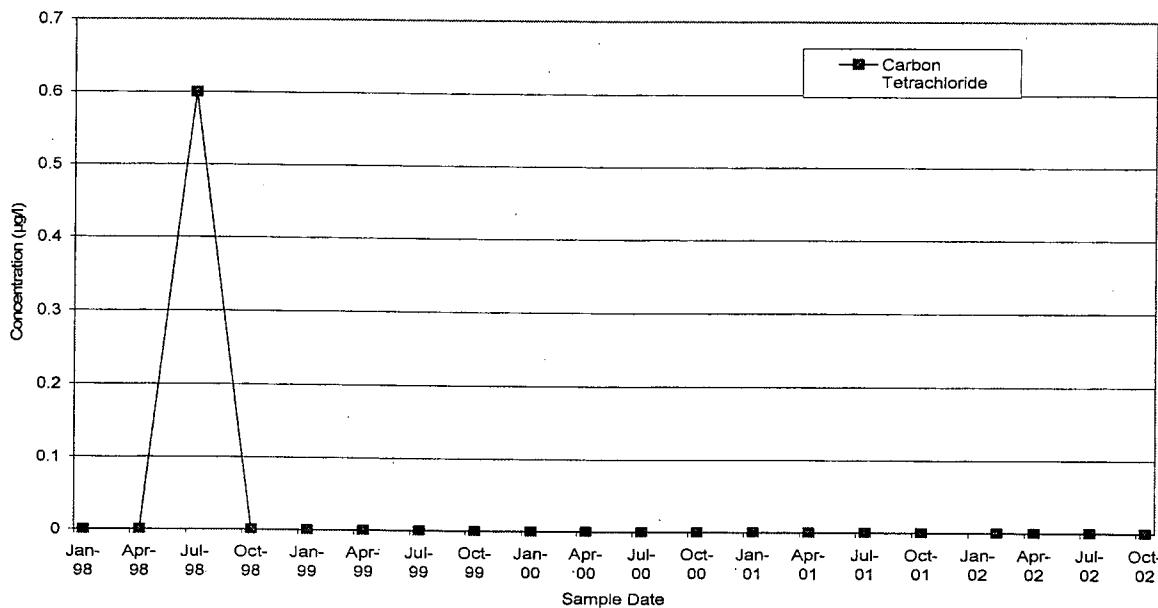
CHRIN BROTHERS LANDFILL
MW-1
TIME SERIES CHARTS

ORIGINAL

BENZENE
Cleanup Level (ESP) = 5 µg/l



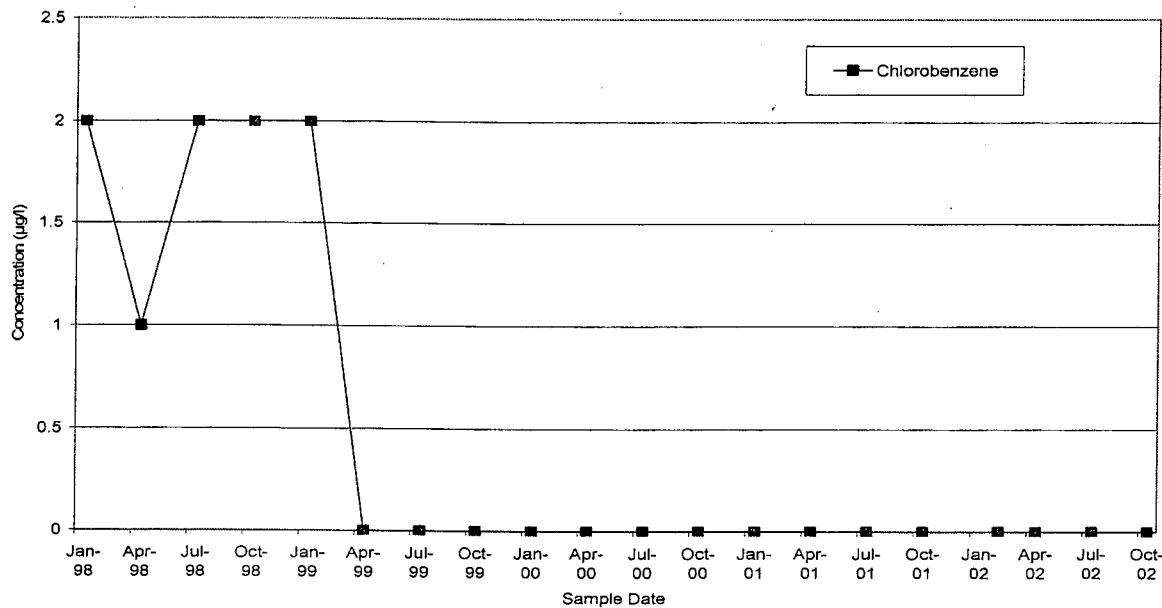
CARBON TETRACHLORIDE
Cleanup Level (ESP) = 5 µg/l



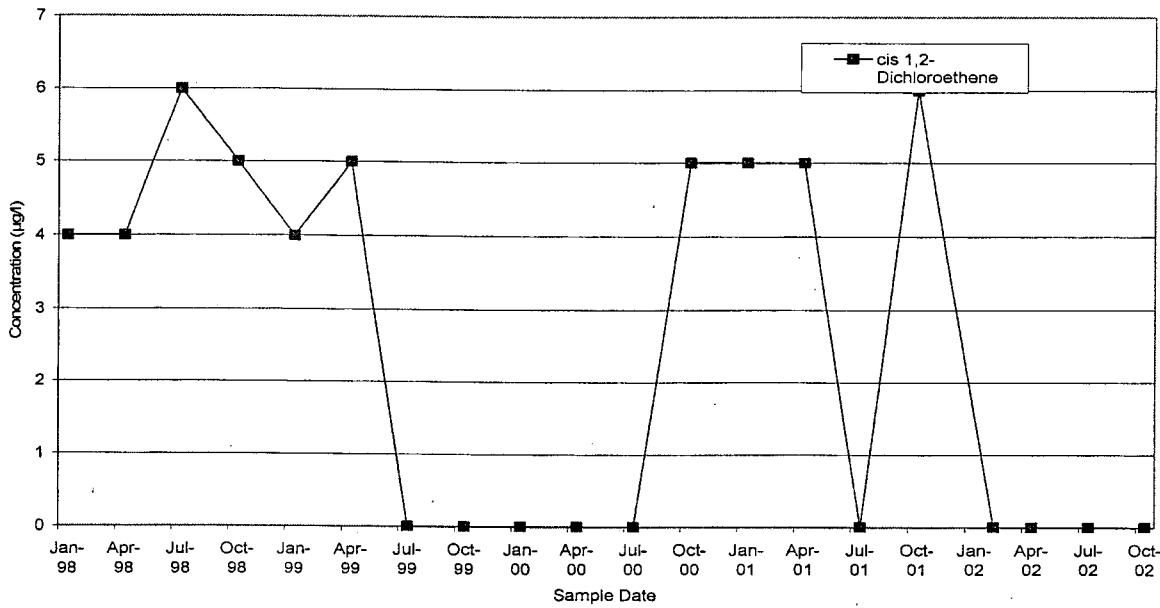
CHRIN BROTHERS LANDFILL
MW-1
TIME SERIES CHARTS

ORIGINAL

CHLOROBENZENE
Cleanup Level (ESP) = 100 µg/l



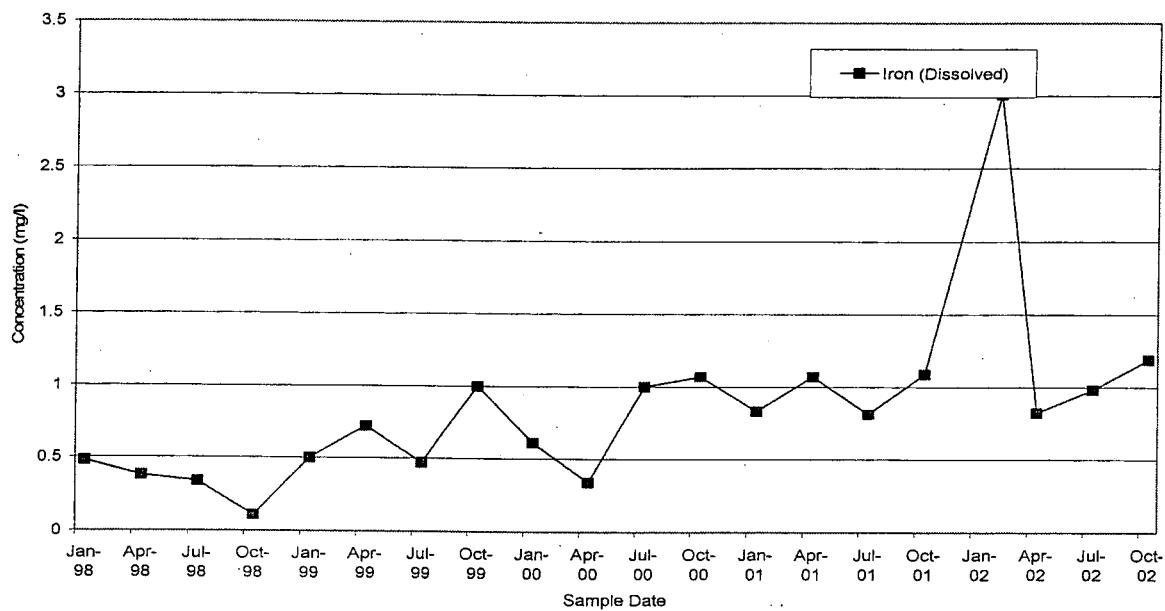
cis 1,2-DICHLOROETHENE
Cleanup Level (ESP) = 70 µg/l



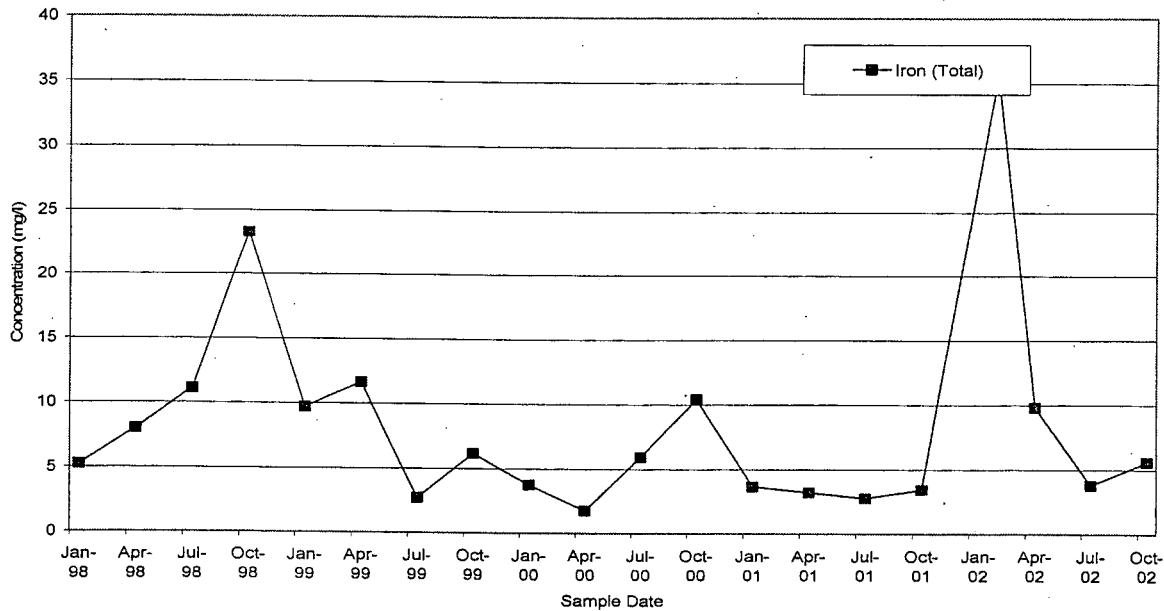
CHRIN BROTHERS LANDFILL
MW-1
TIME SERIES CHARTS

ORIGINAL

IRON, DISSOLVED



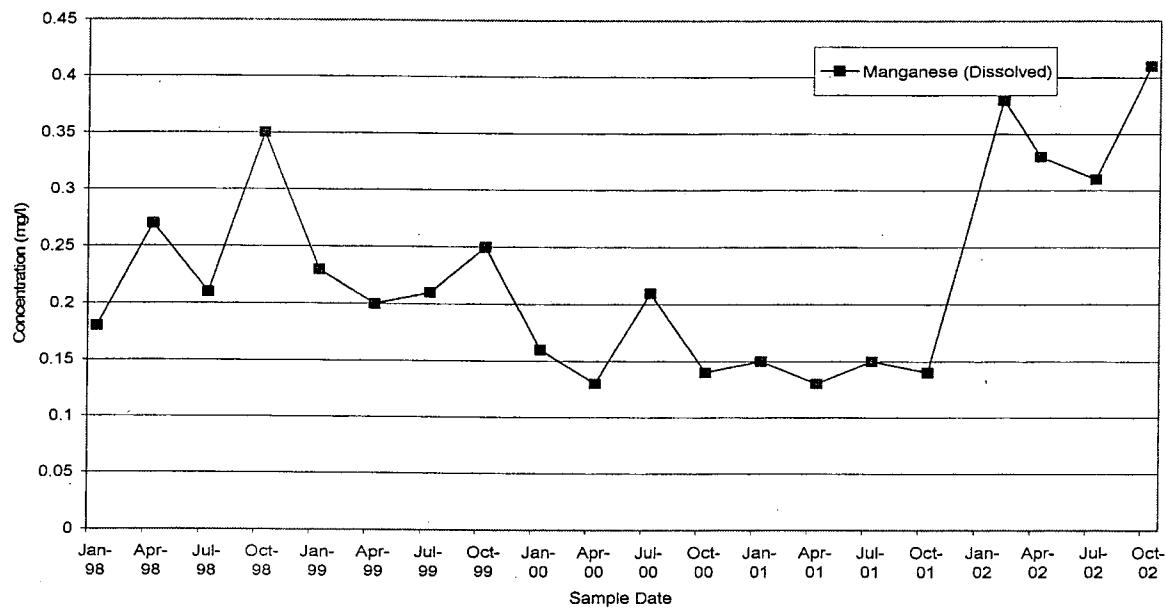
IRON, TOTAL



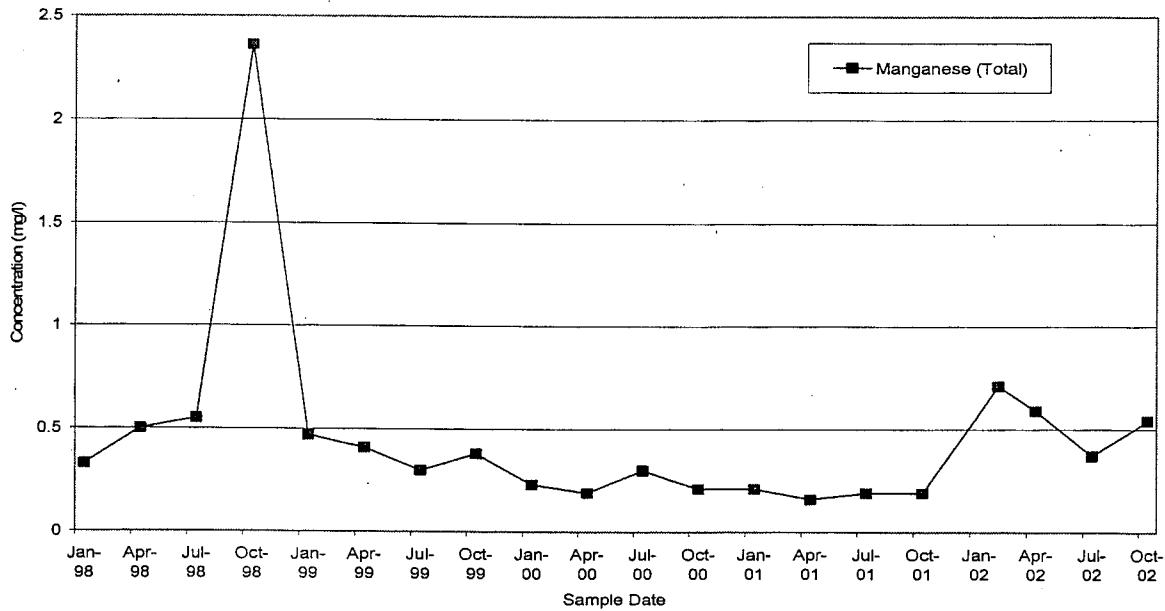
CHRIN BROTHERS LANDFILL
MW-1
TIME SERIES CHARTS

ORIGINAL

MANGANESE, DISSOLVED



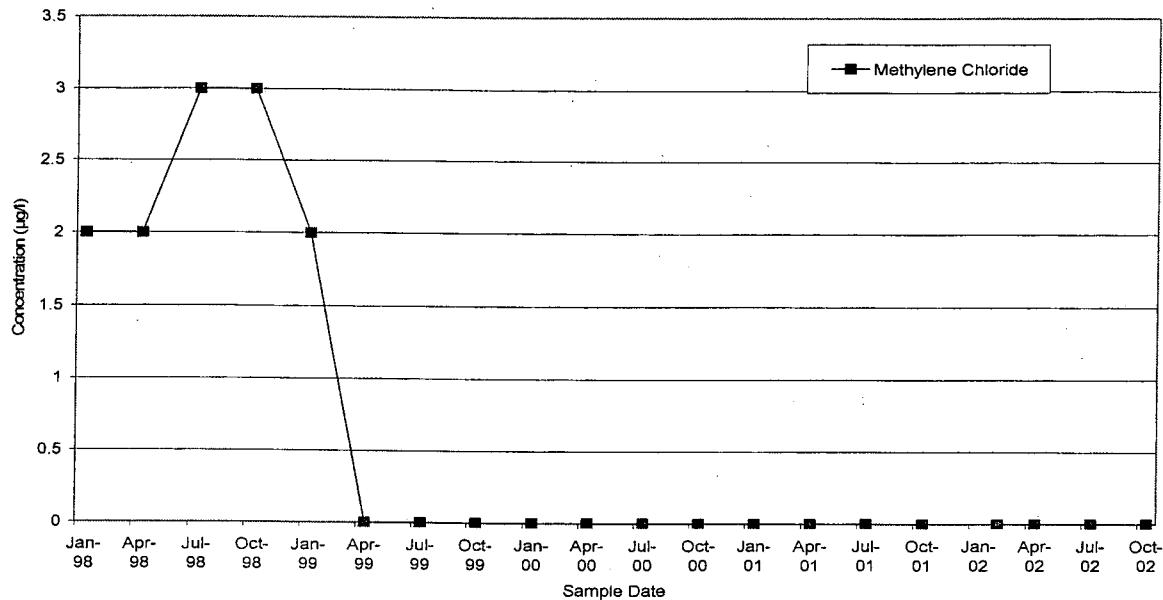
MANGANESE, TOTAL



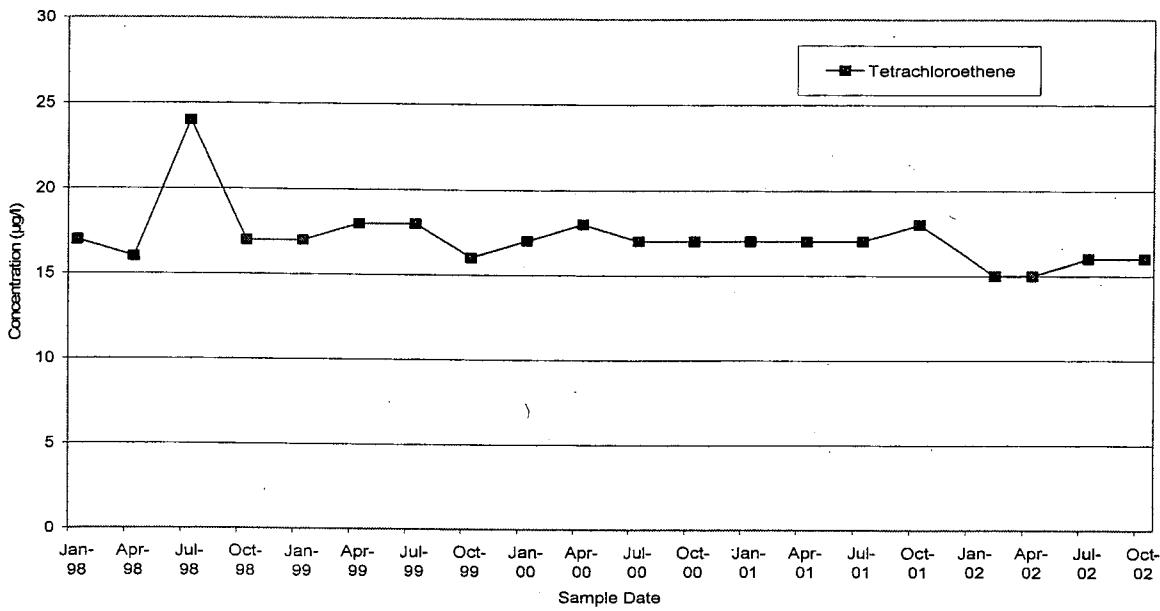
CHRIN BROTHERS LANDFILL
MW-1
TIME SERIES CHARTS

ORIGINAL

METHYLENE CHLORIDE
Cleanup Level (ESP) = 5 µg/l



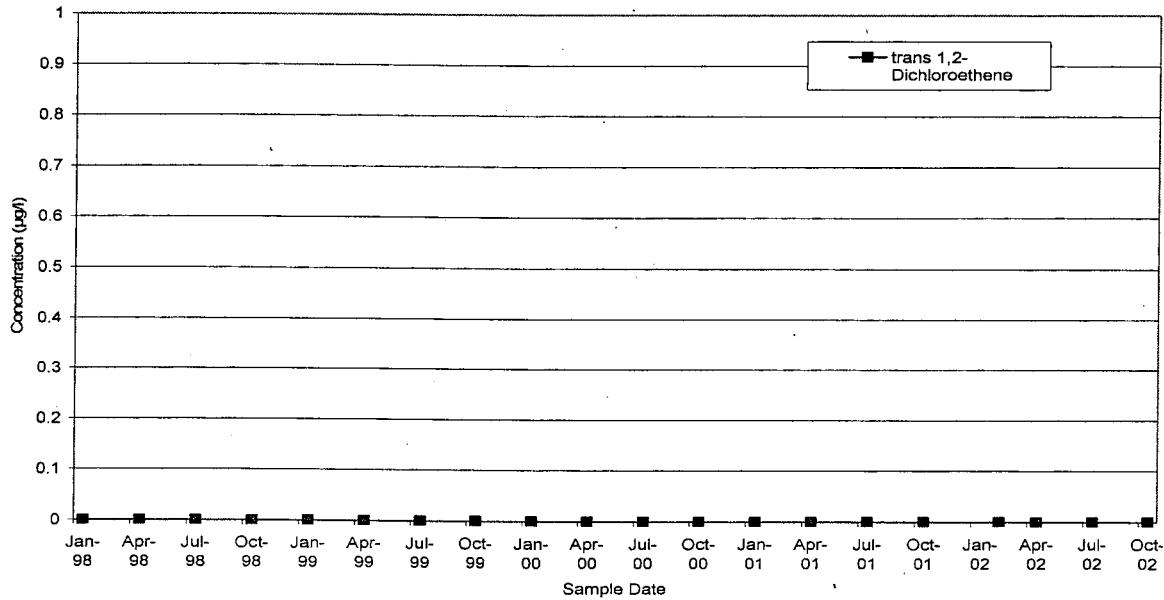
TETRACHLOROETHENE
Cleanup Level (ESP) = 5 µg/l



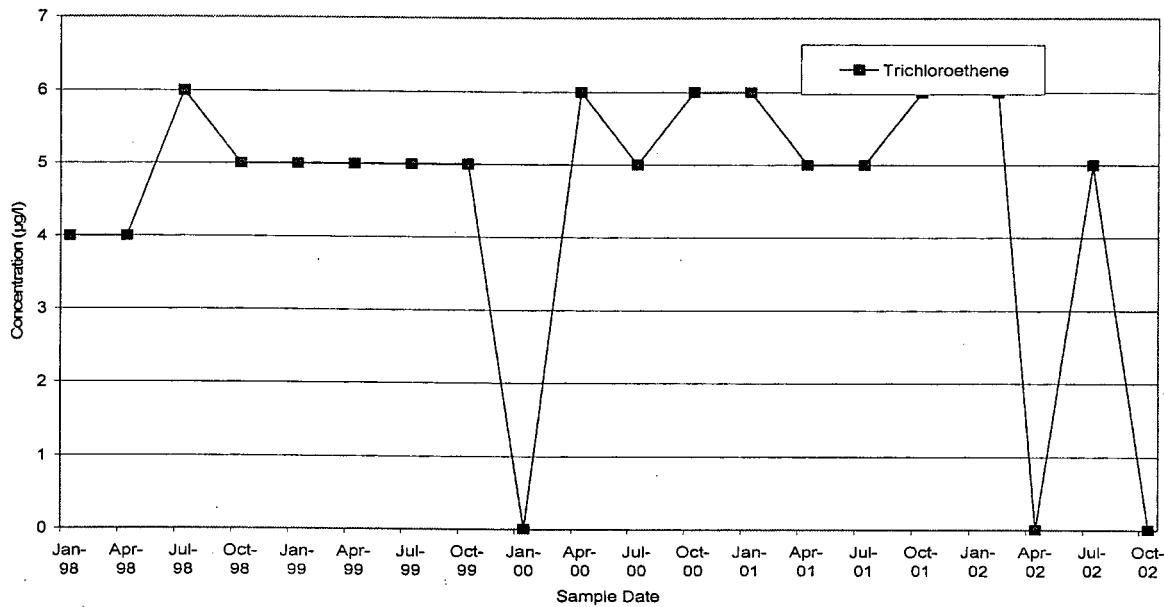
CHRIN BROTHERS LANDFILL
MW-1
TIME SERIES CHARTS

ORIGINAL

trans 1,2-DICHLOROETHENE
Cleanup Level (ESP) = 100 µg/l



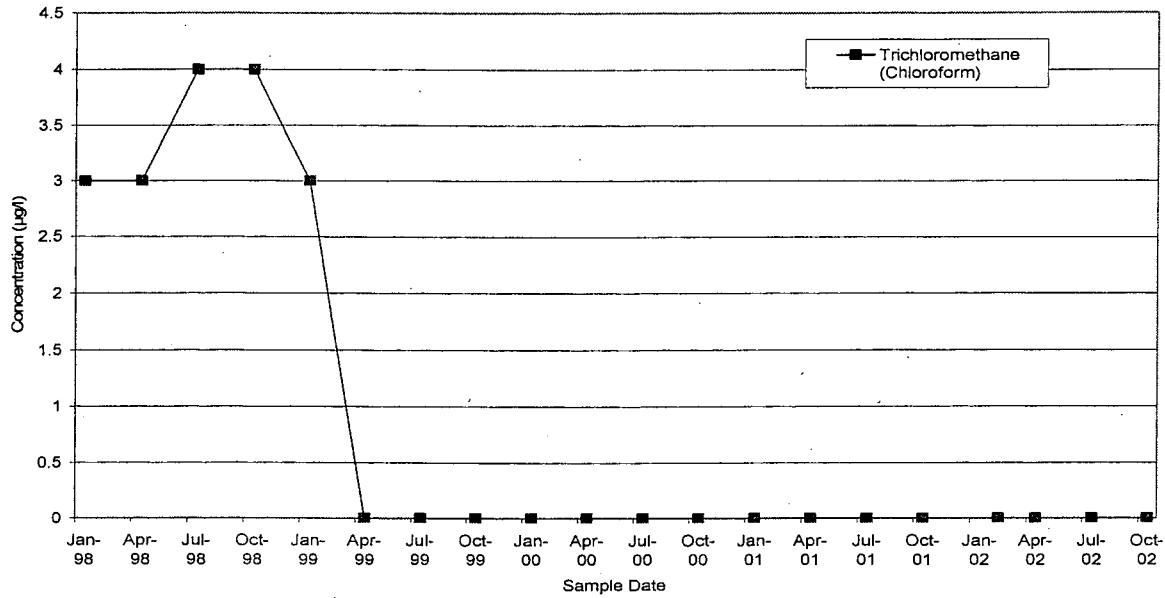
TRICHLOROETHENE
Cleanup Level (ESP) = 5 µg/l



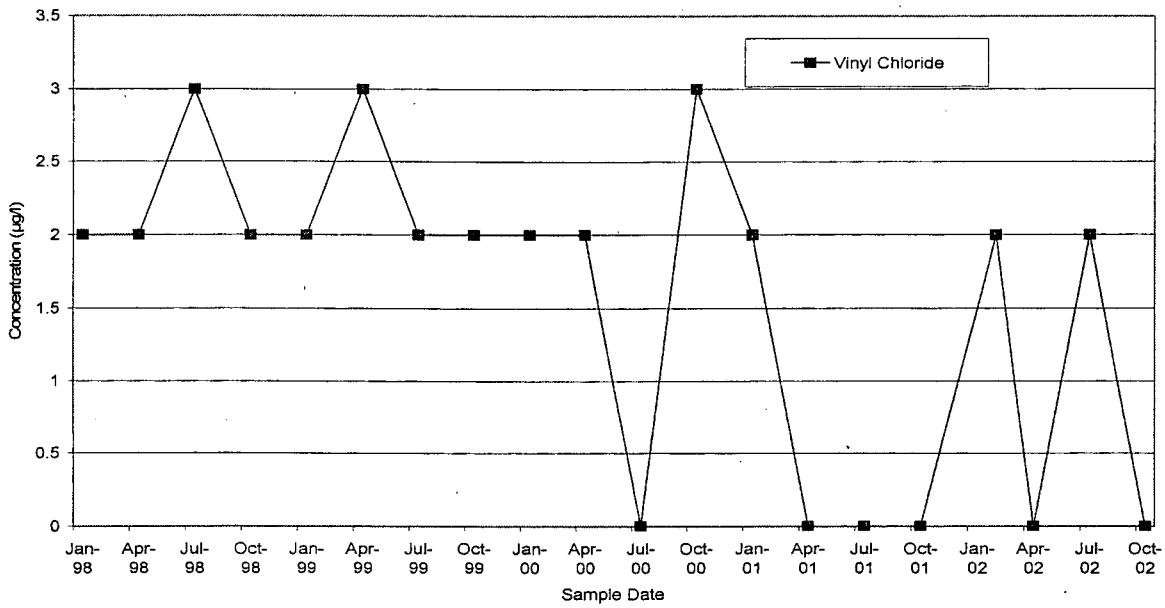
CHRIN BROTHERS LANDFILL
MW-1
TIME SERIES CHARTS

ORIGINAL

TRICHLOROMETHANE
Cleanup Level (ESP) = 100 µg/l



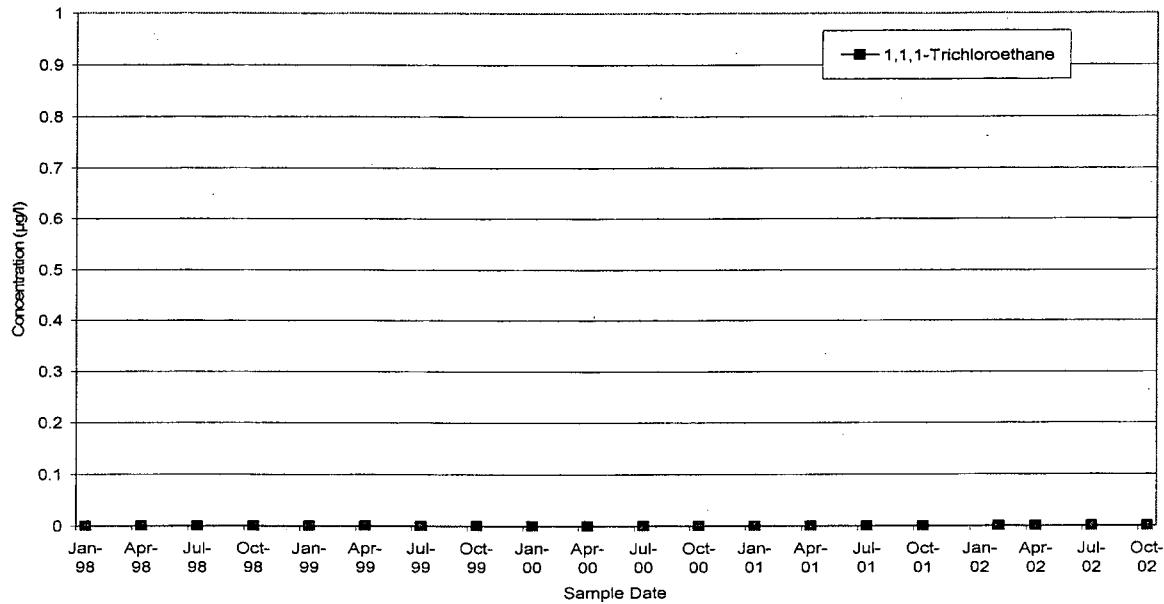
VINYL CHLORIDE
Cleanup Level (ESP) = 2 µg/l



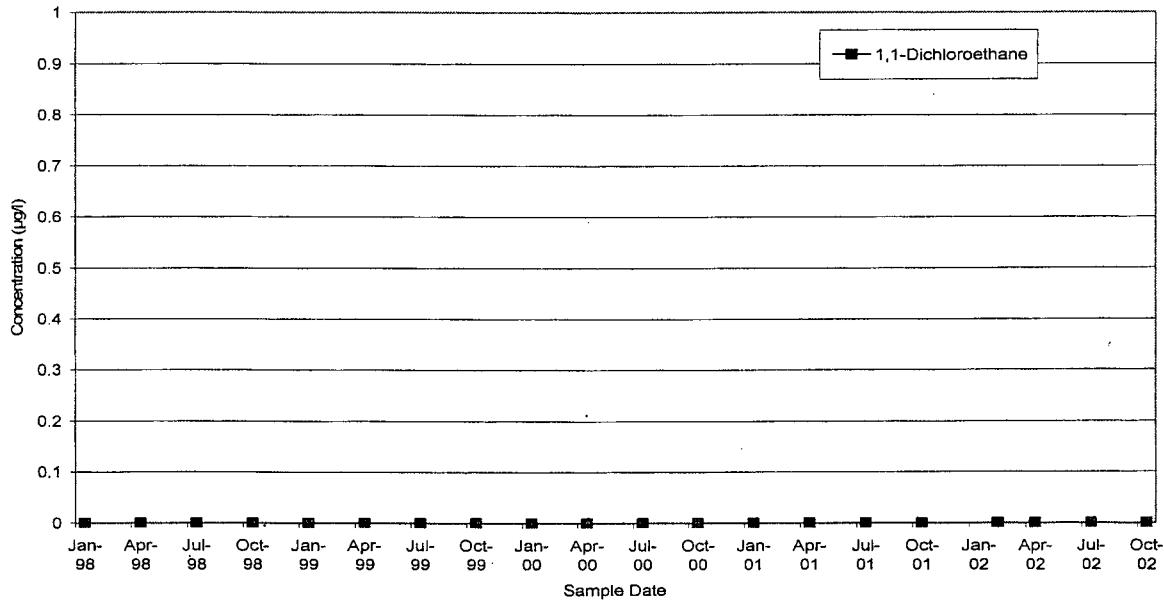
CHRIN BROTHERS LANDFILL
MW-2
TIME SERIES CHARTS

ORIGINAL

1,1,1-TRICHLOROETHANE
Cleanup Level (ESP) = 200 µg/l



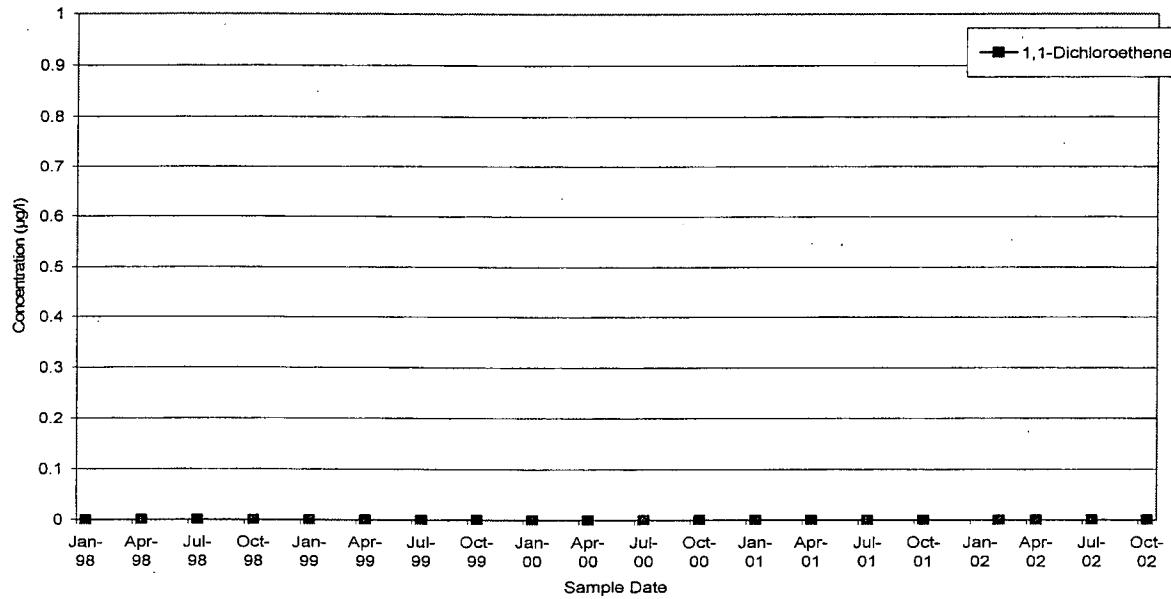
1,1-DICHLOROETHANE
Cleanup Level (ESP) = 27 µg/l



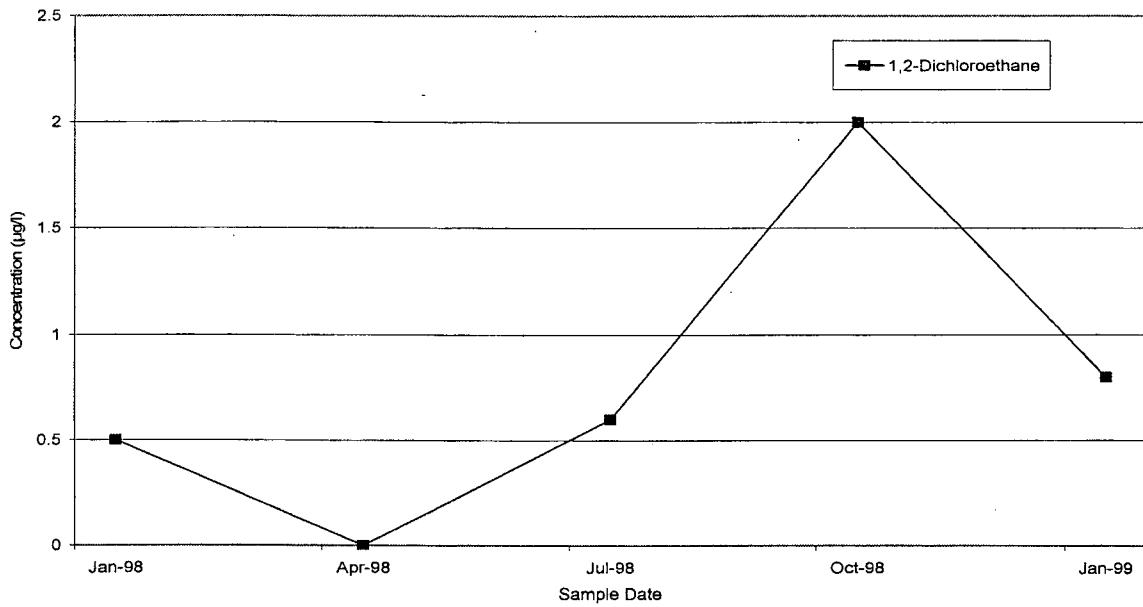
CHRIN BROTHERS LANDFILL
MW-2
TIME SERIES CHARTS

ORIGINAL

1,1-DICHLOROETHENE
Cleanup Level (ESP) = 7 µg/l



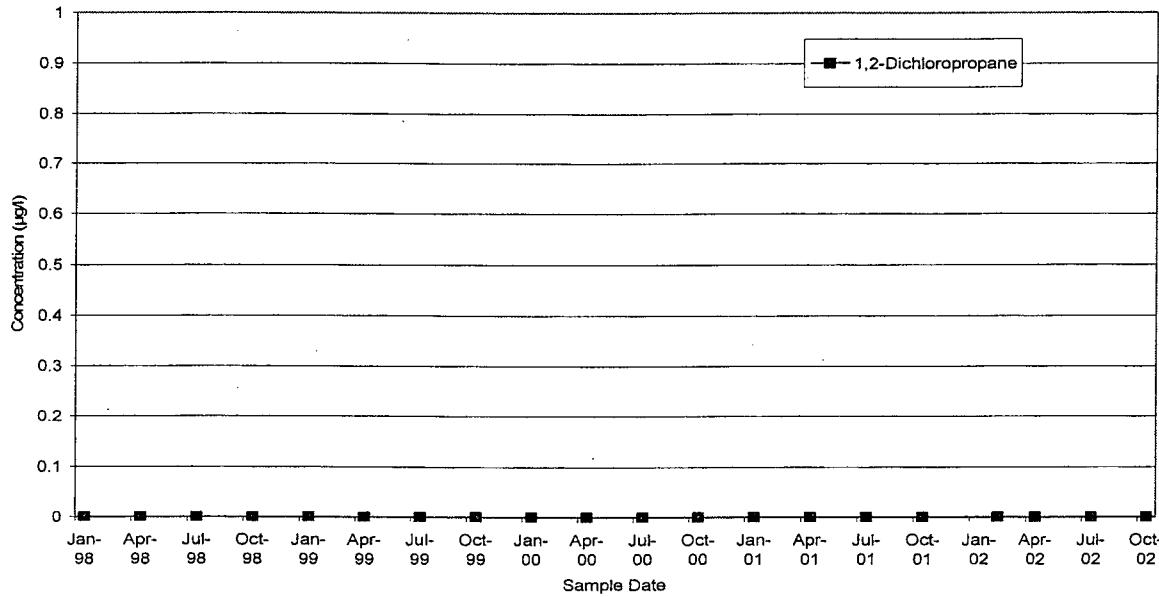
1,2-DICHLOROETHANE
Cleanup Level (ESP) = 5 µg/l



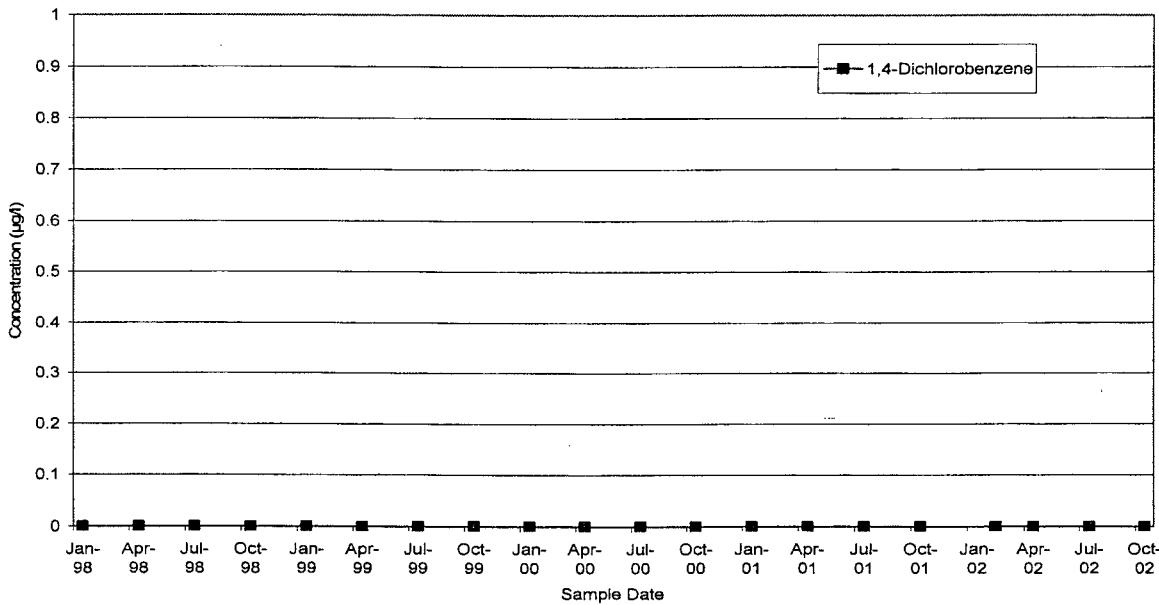
CHRIN BROTHERS LANDFILL
MW-2
TIME SERIES CHARTS

ORIGINAL

1,2-DICHLOROPROPANE
Cleanup Level (ESP) = 5 µg/l

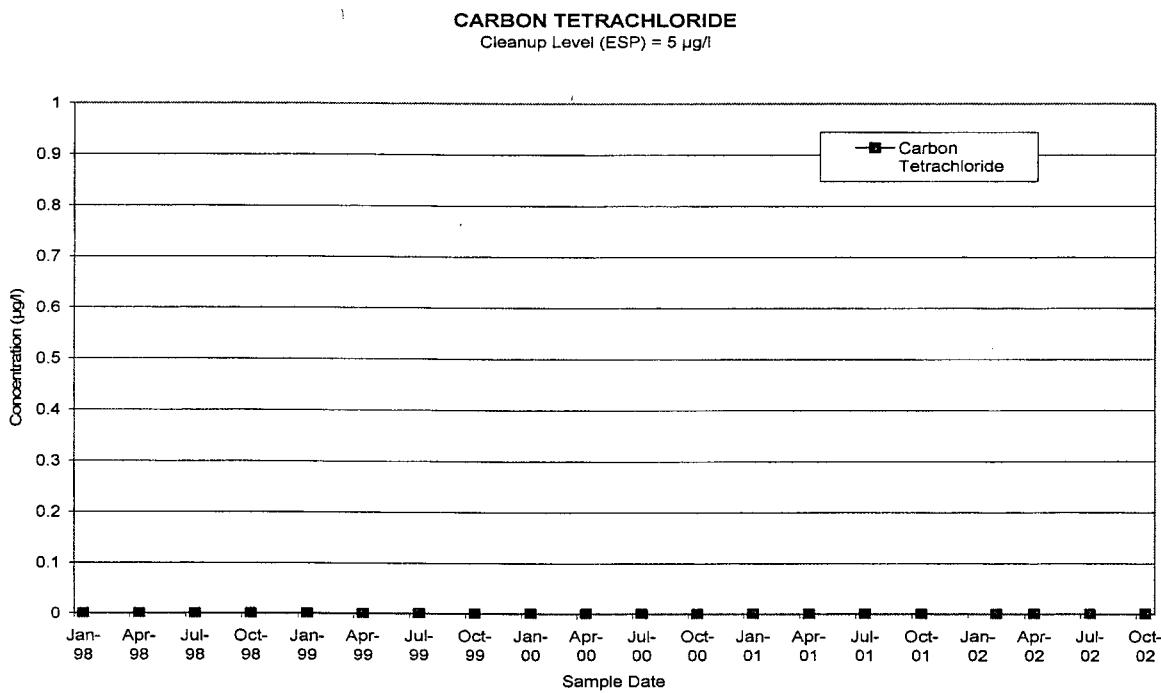
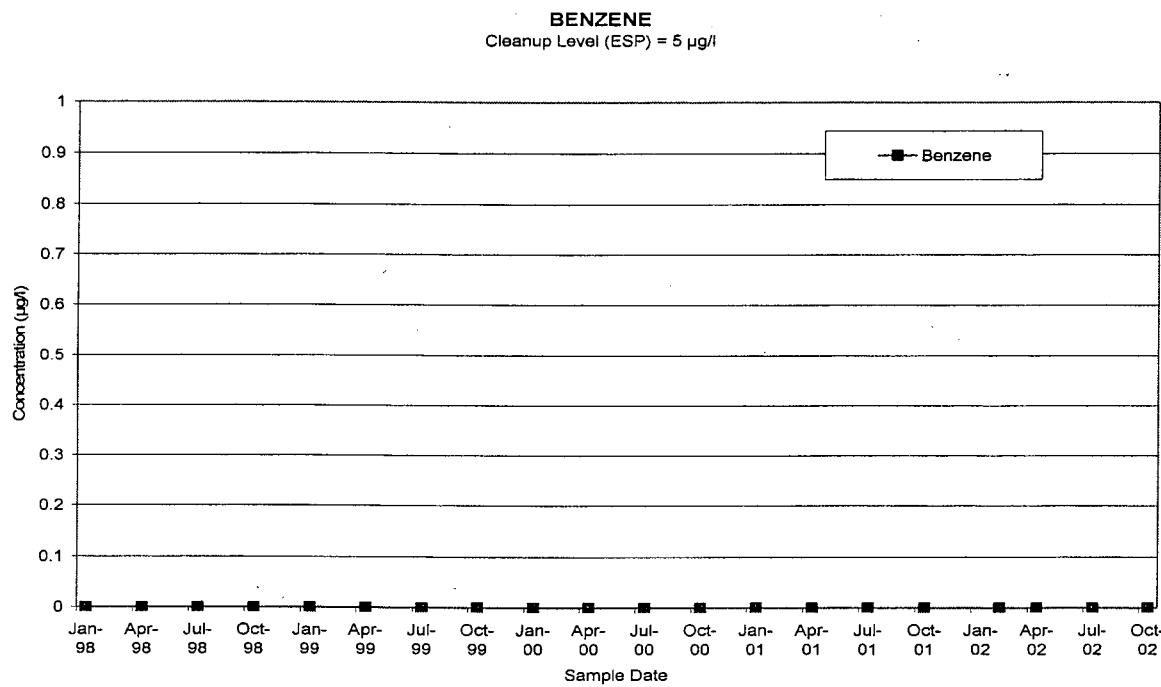


1,4-DICHLOROBENZENE
Cleanup Level (ESP) = 75 µg/l



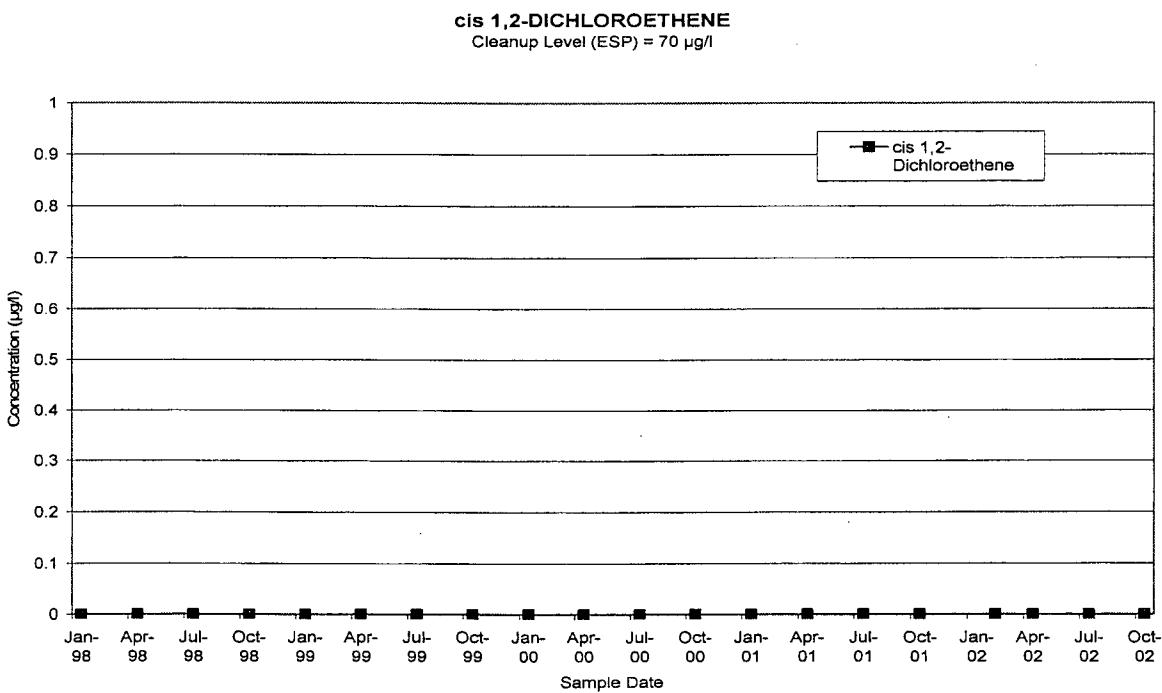
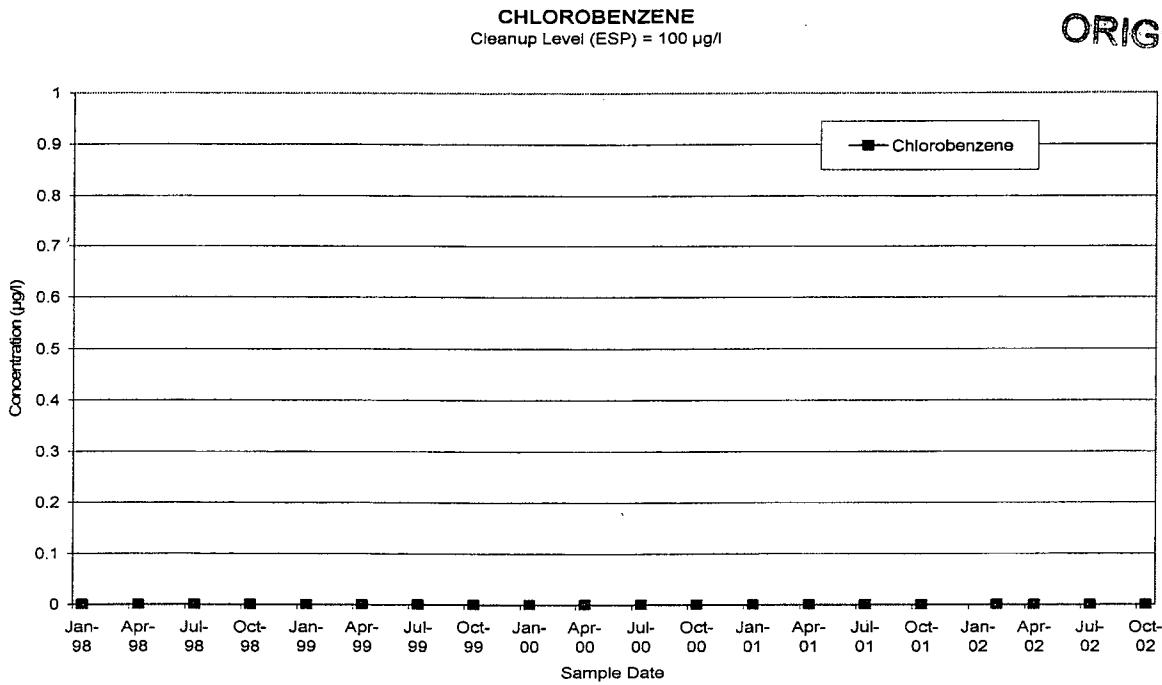
CHRIN BROTHERS LANDFILL
MW-2
TIME SERIES CHARTS

ORIGINAL



CHRIN BROTHERS LANDFILL
MW-2
TIME SERIES CHARTS

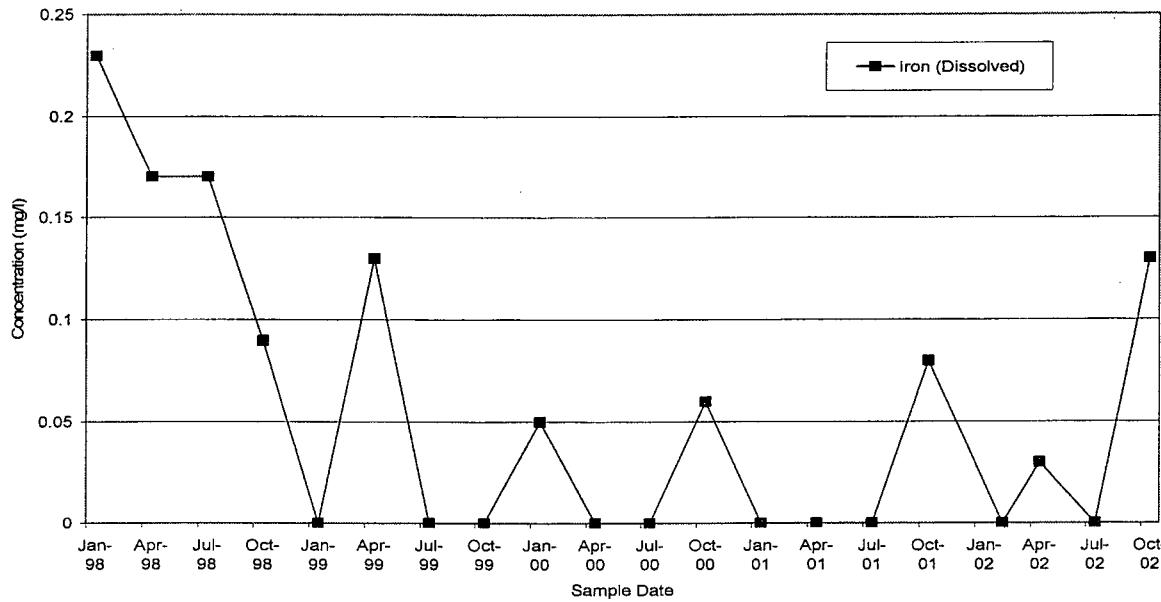
ORIGINAL



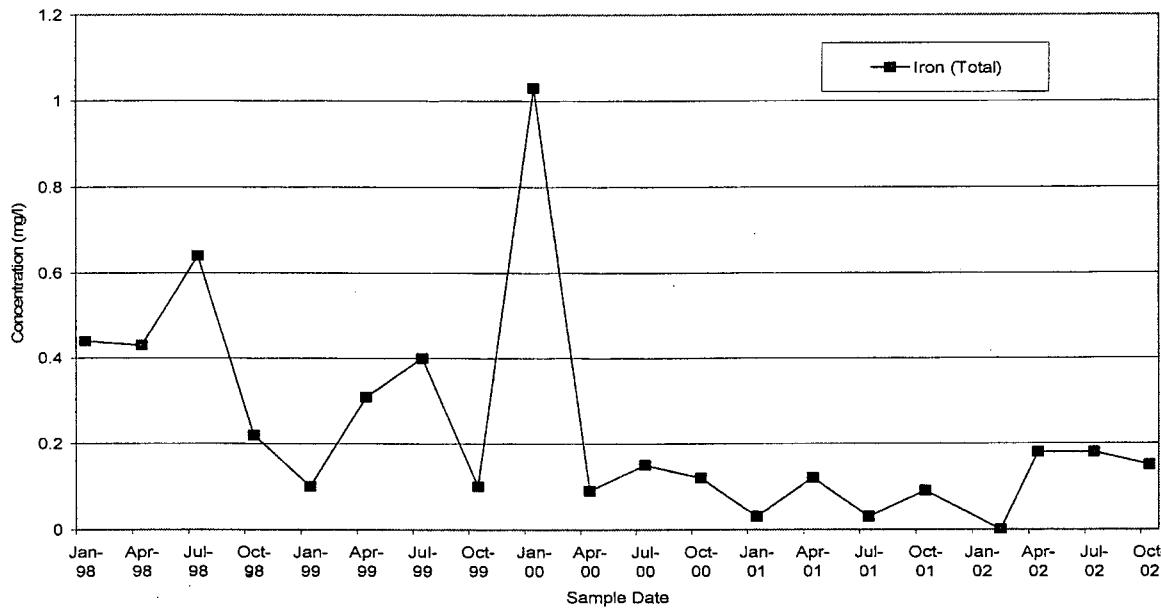
CHRIN BROTHERS LANDFILL
MW-2
TIME SERIES CHARTS

ORIGINAL

IRON, DISSOLVED



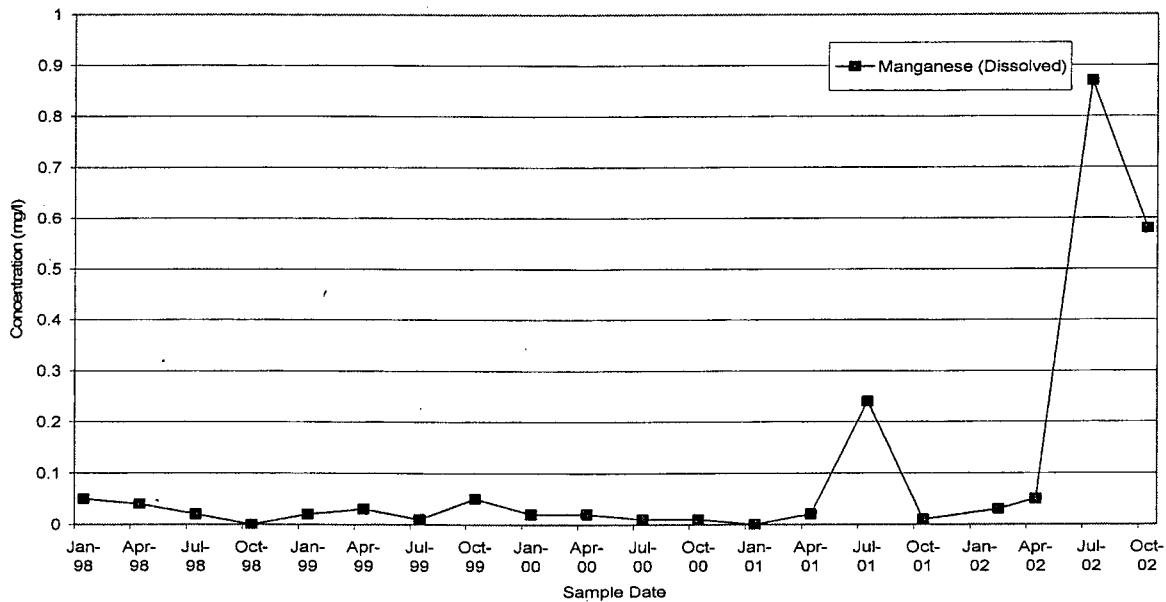
IRON, TOTAL



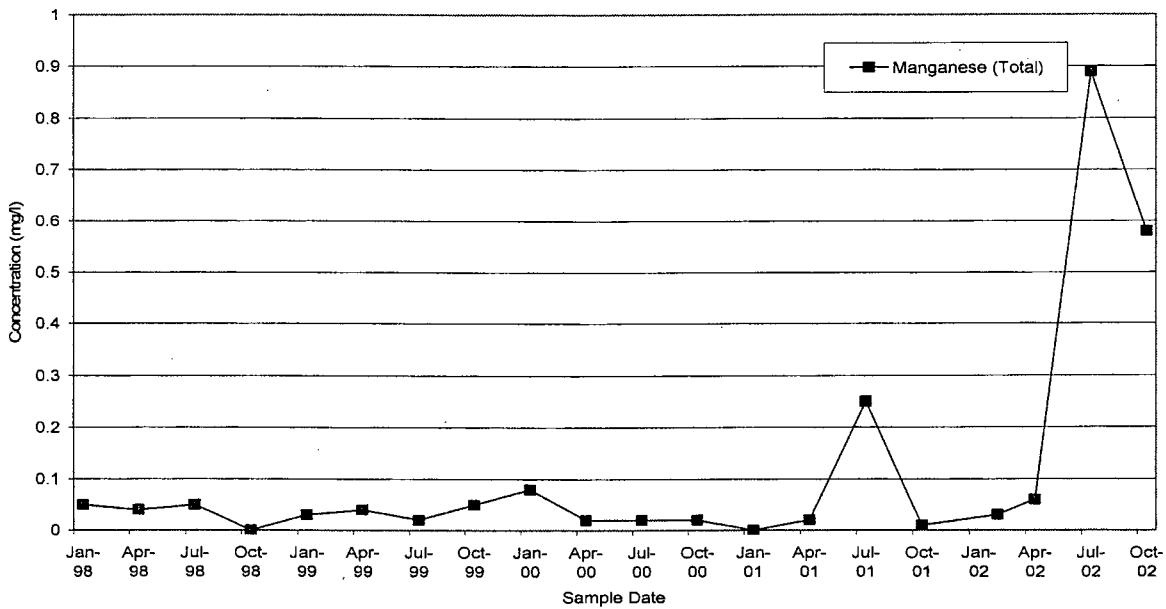
CHRIN BROTHERS LANDFILL
MW-2
TIME SERIES CHARTS

ORIGINAL

MANGANESE, DISSOLVED



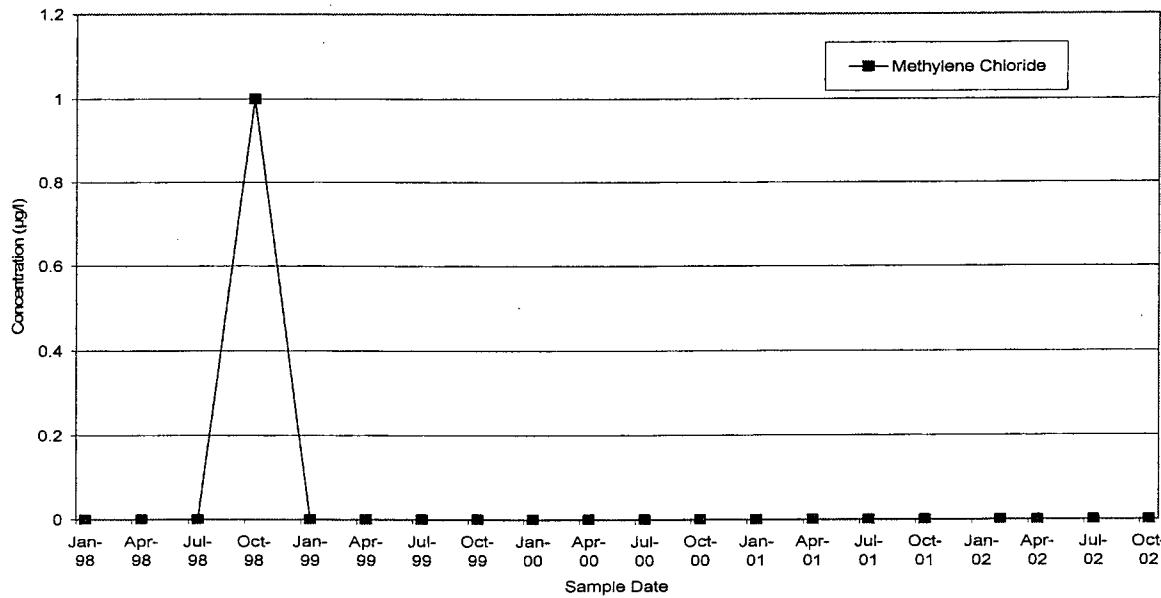
MANGANESE, TOTAL



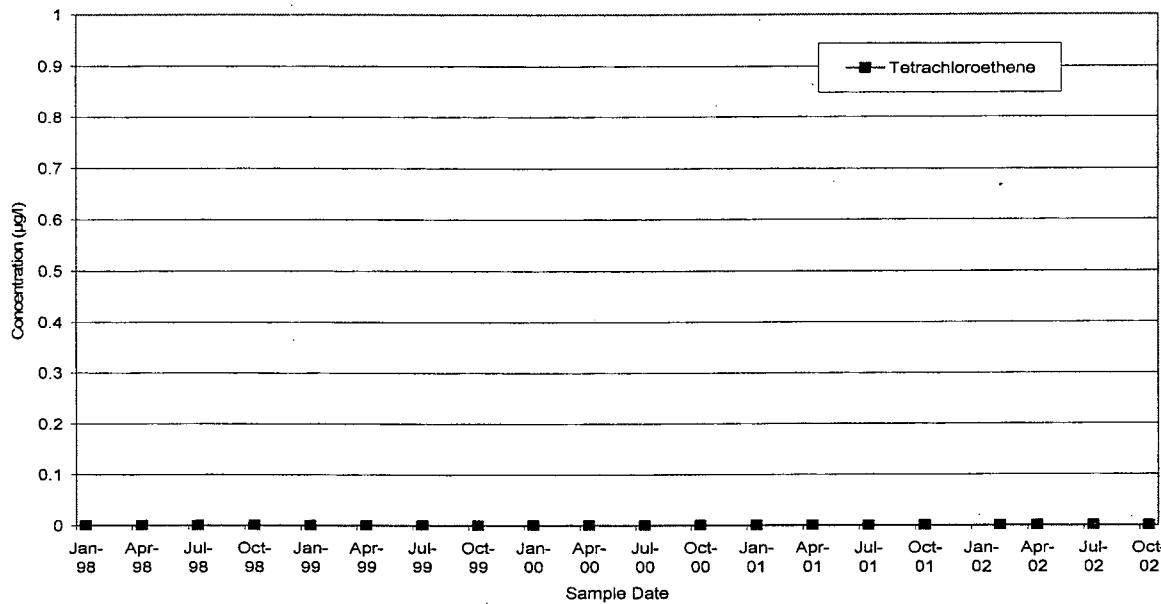
CHRIN BROTHERS LANDFILL
MW-2
TIME SERIES CHARTS

ORIGINAL

METHYLENE CHLORIDE
Cleanup Level (ESP) = 5 µg/l



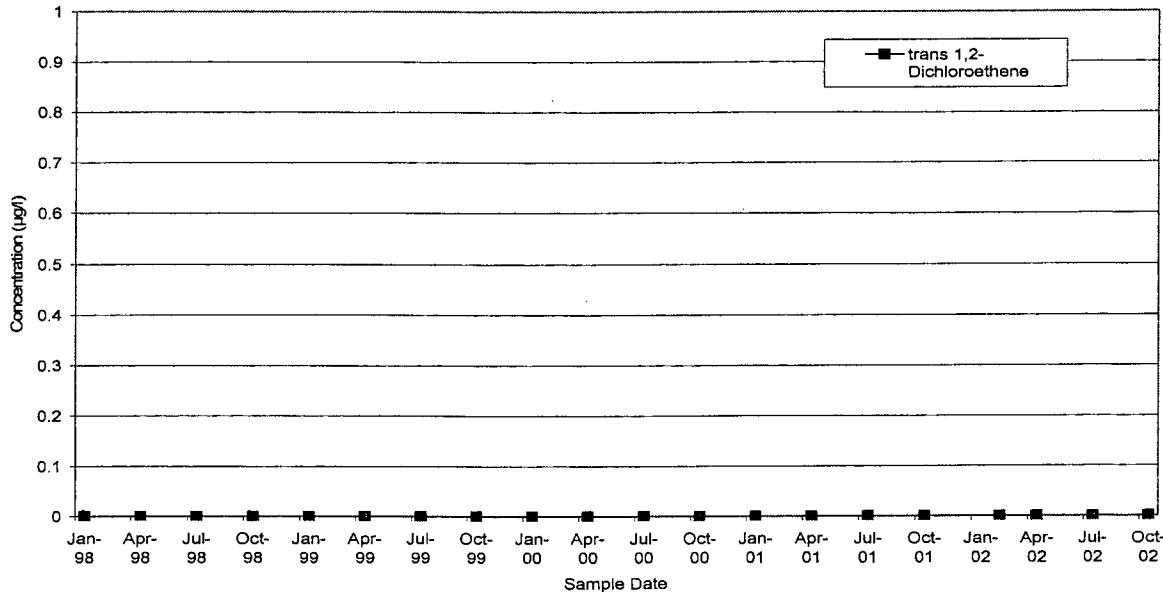
TETRACHLOROETHENE
Cleanup Level (ESP) = 5 µg/l



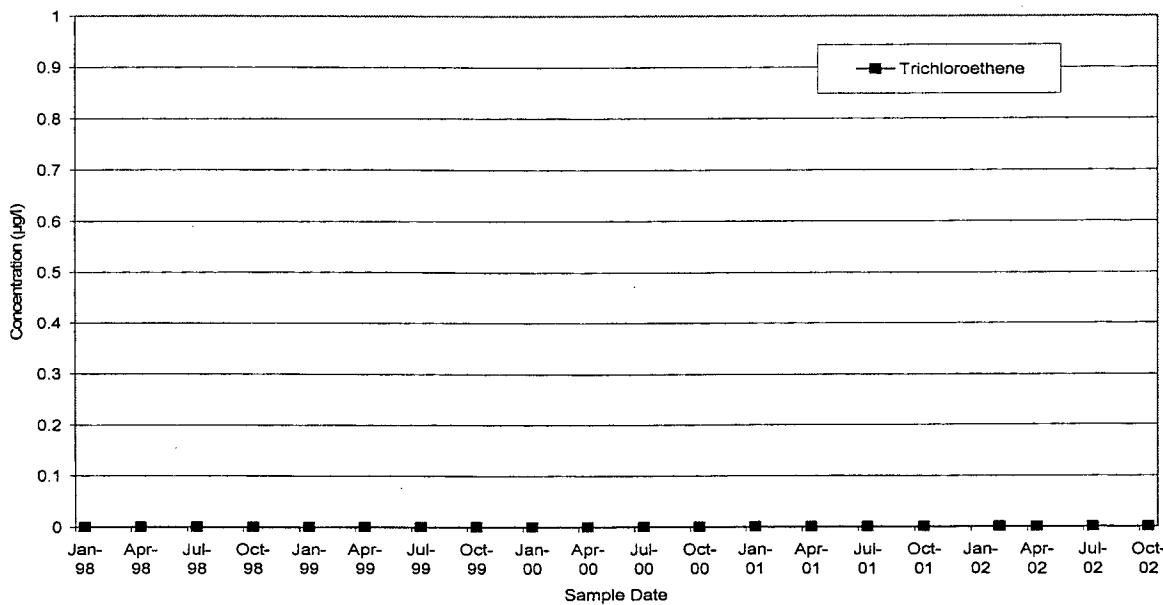
CHRIN BROTHERS LANDFILL
MW-2
TIME SERIES CHARTS

ORIGINAL

trans 1,2-DICHLOROETHENE
Cleanup Level (ESP) = 100 µg/l



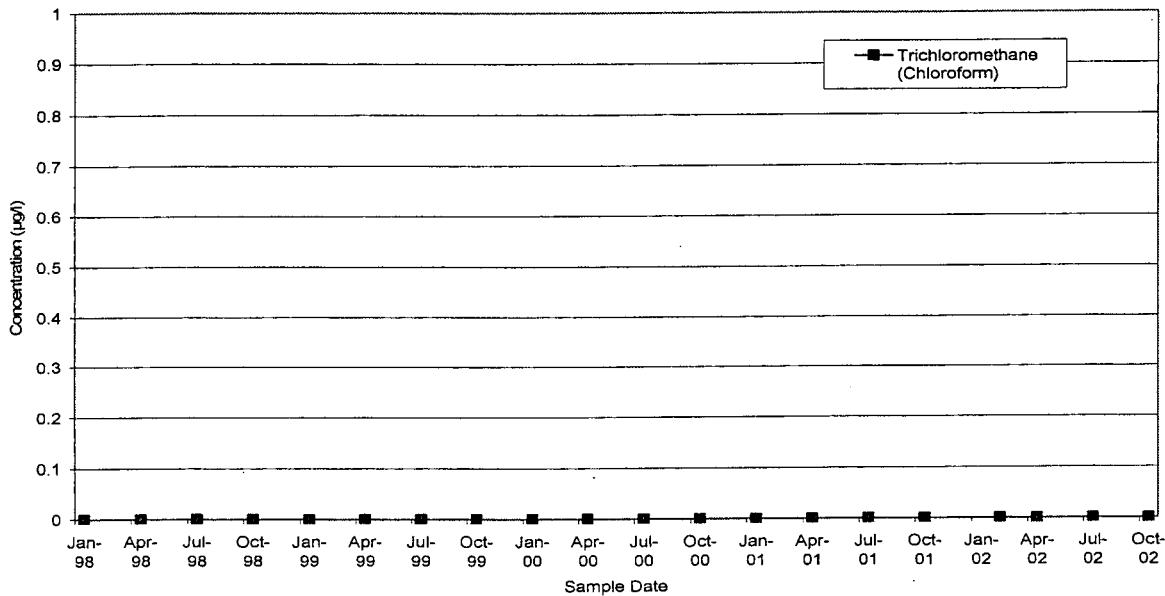
TRICHLOROETHENE
Cleanup Level (ESP) = 5 µg/l



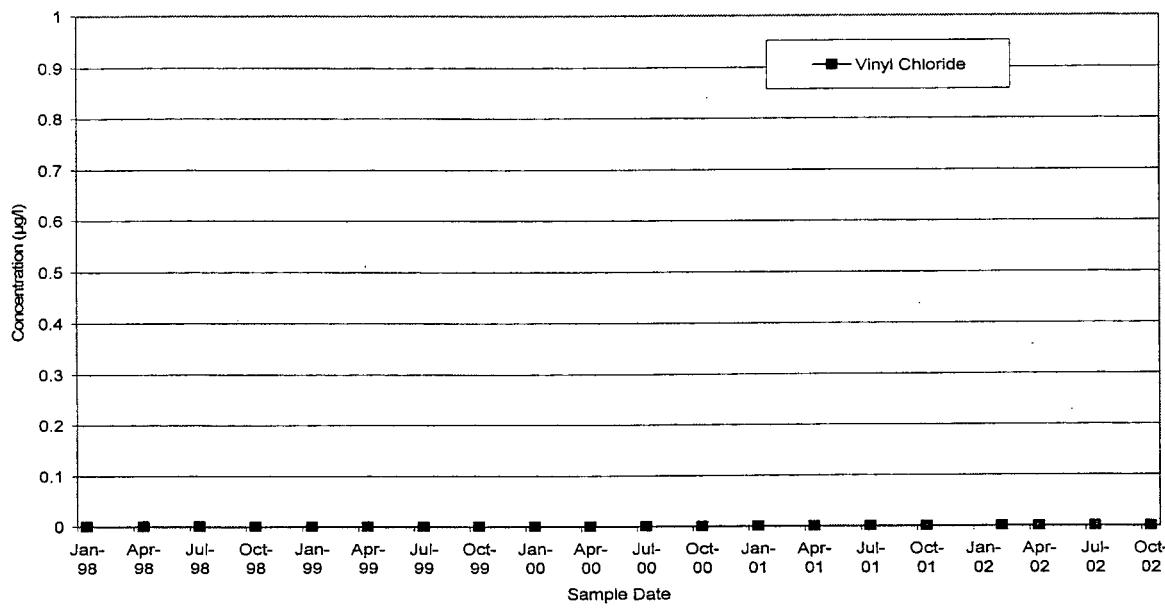
CHRIN BROTHERS LANDFILL
MW-2
TIME SERIES CHARTS

ORIGINAL

TRICHLOROMETHANE
Cleanup Level (ESP) = 100 µg/l

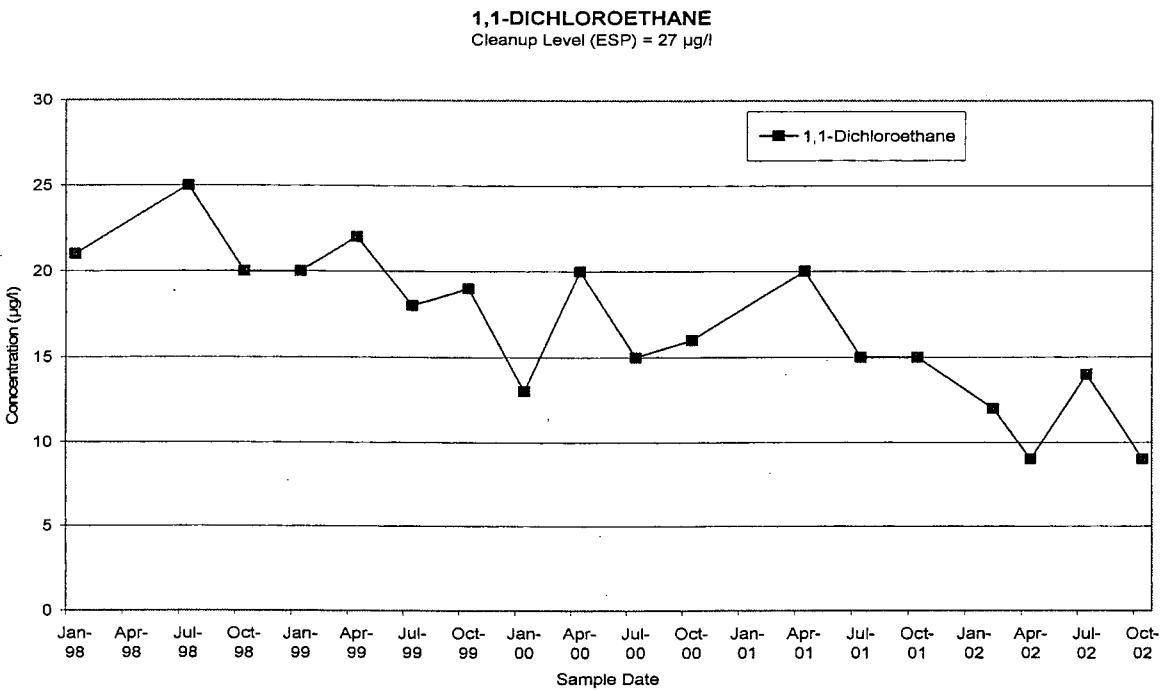
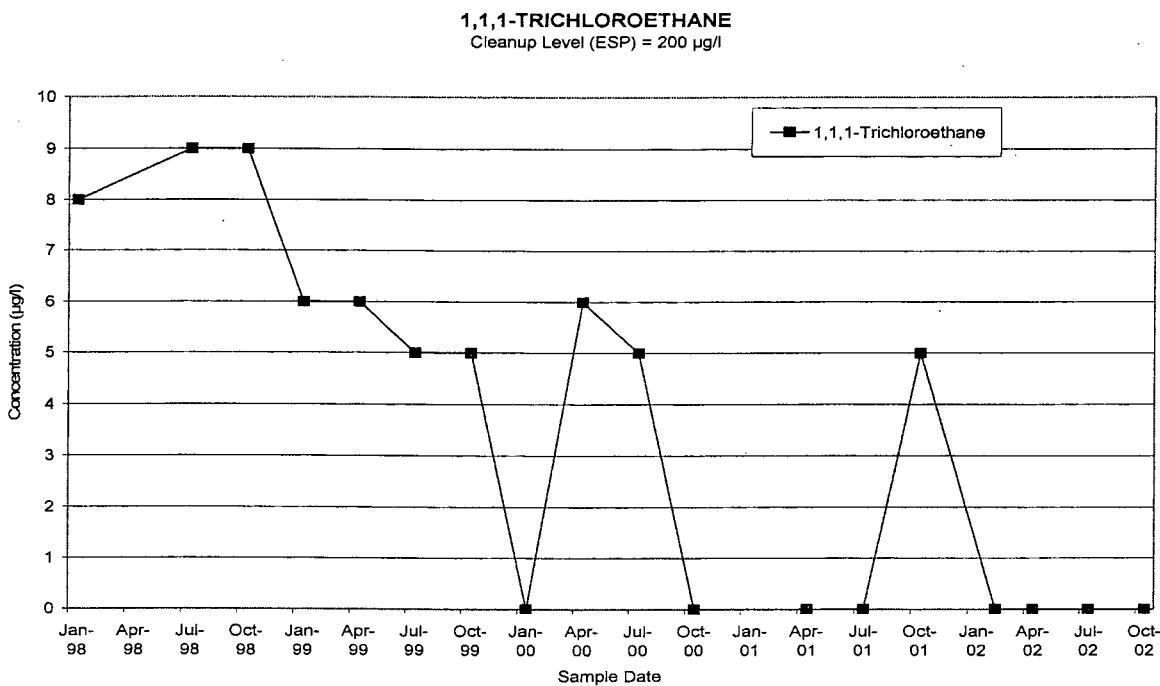


VINYL CHLORIDE
Cleanup Level (ESP) = 2 µg/l



CHRIN BROTHERS LANDFILL
MW-9
TIME SERIES CHARTS

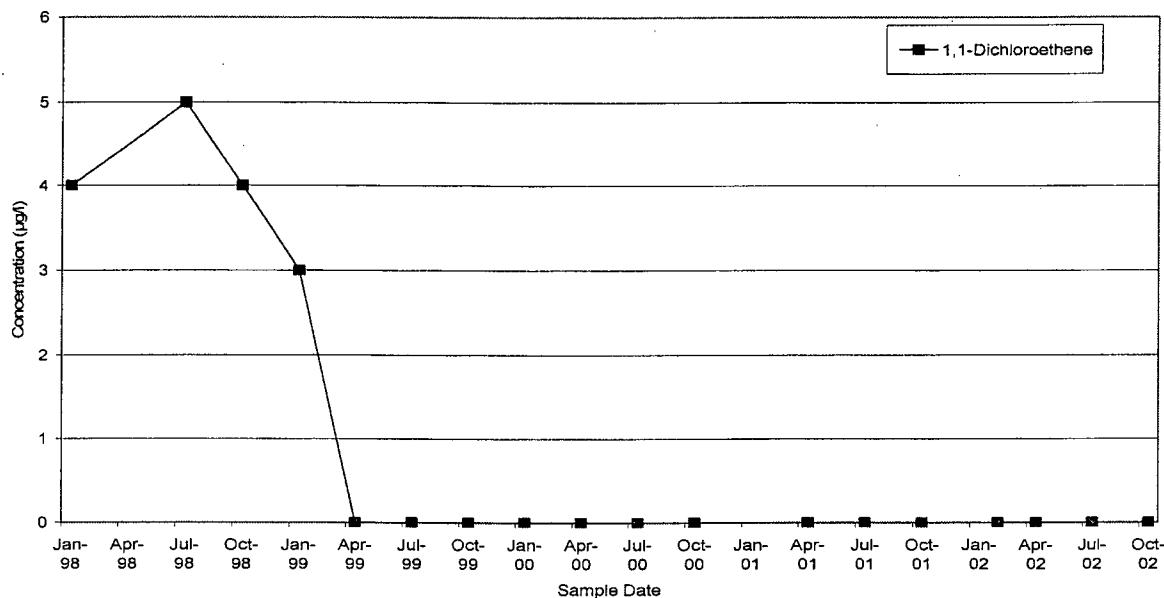
ORIGINAL



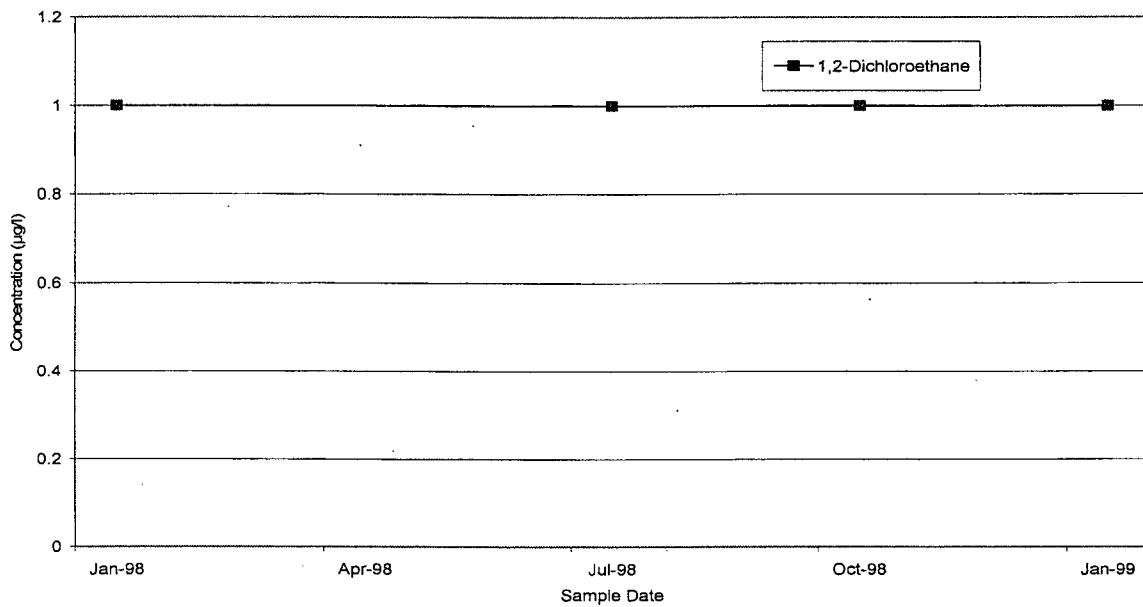
CHRIN BROTHERS LANDFILL
MW-9
TIME SERIES CHARTS

ORIGINAL

1,1-DICHLOROETHENE
Cleanup Level (ESP) = 7 µg/l



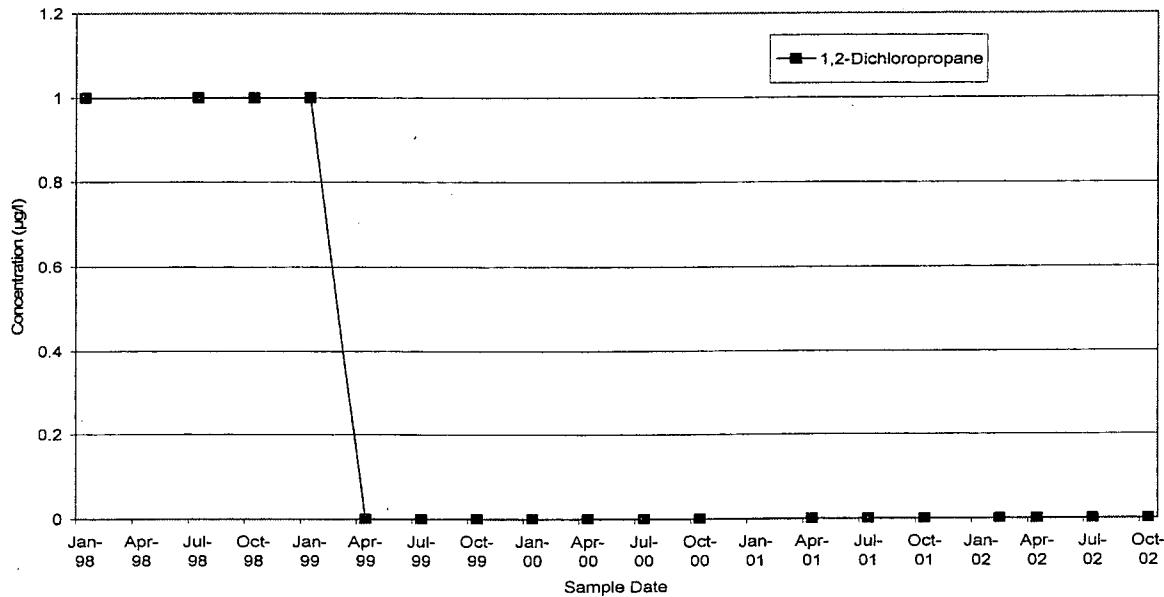
1,2-DICHLOROETHANE
Cleanup Level (ESP) = 5 µg/l



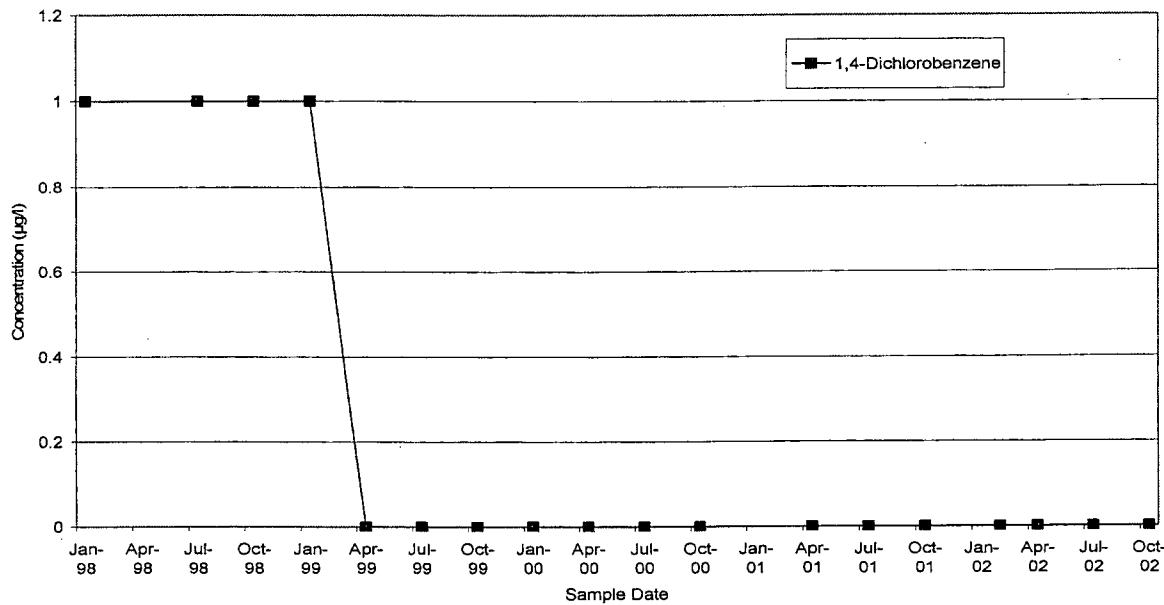
CHRIN BROTHERS LANDFILL
MW-9
TIME SERIES CHARTS

ORIGINAL

1,2-DICHLOROPROPANE
Cleanup Level (ESP) = 5 µg/l



1,4-DICHLOROBENZENE
Cleanup Level (ESP) = 75 µg/l

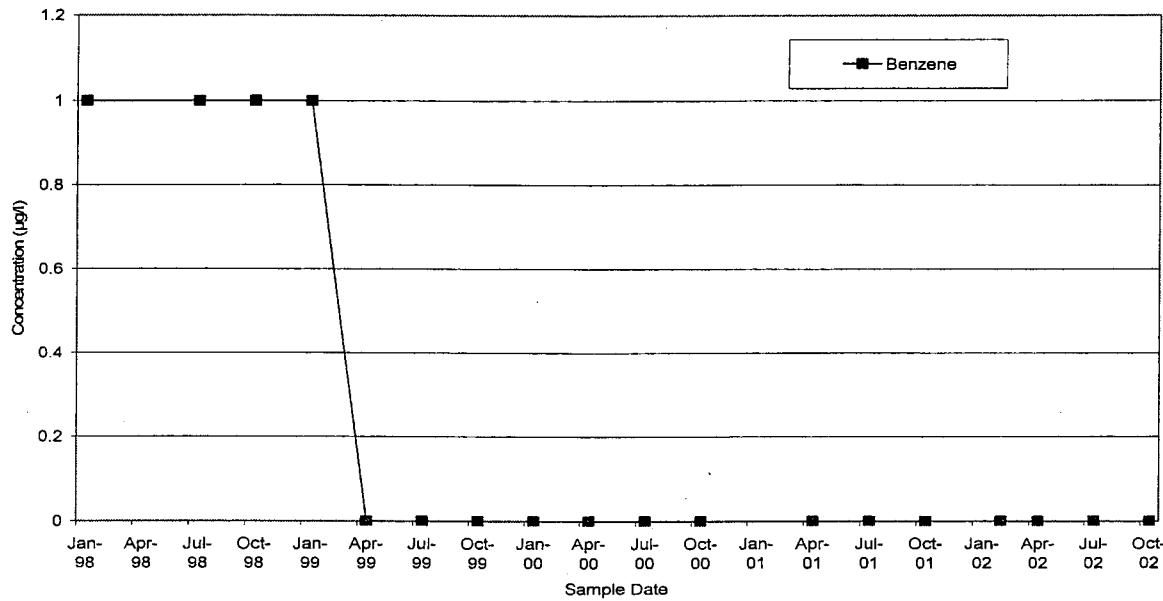


CHRIN BROTHERS LANDFILL
MW-9
TIME SERIES CHARTS

ORIGINAL

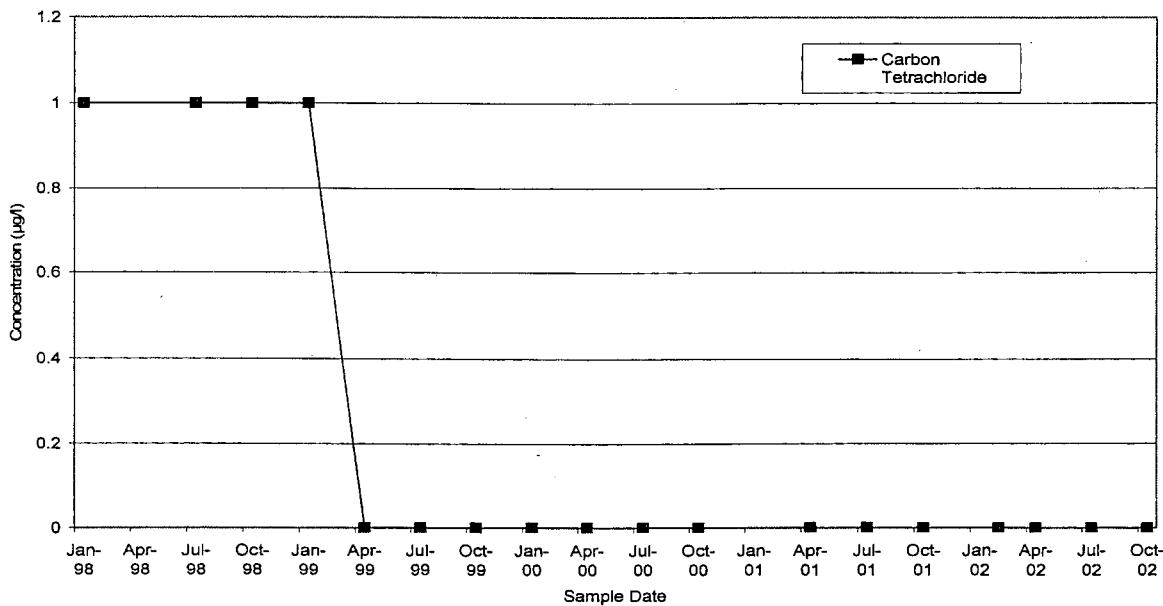
BENZENE

Cleanup Level (ESP) = 5 µg/l



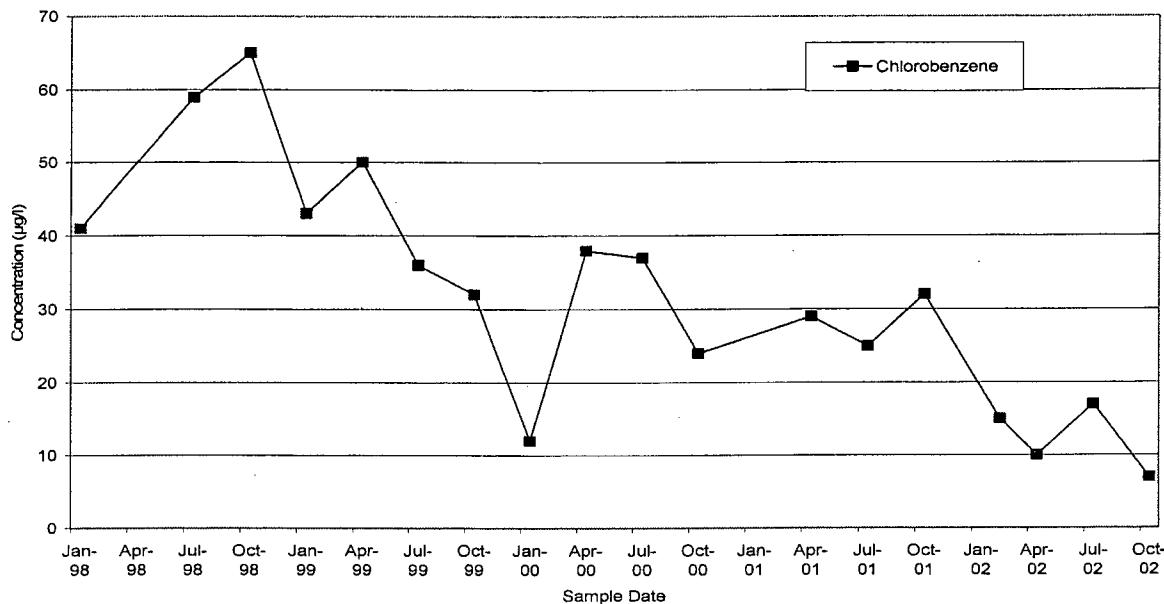
CARBON TETRACHLORIDE

Cleanup Level (ESP) = 5 µg/l

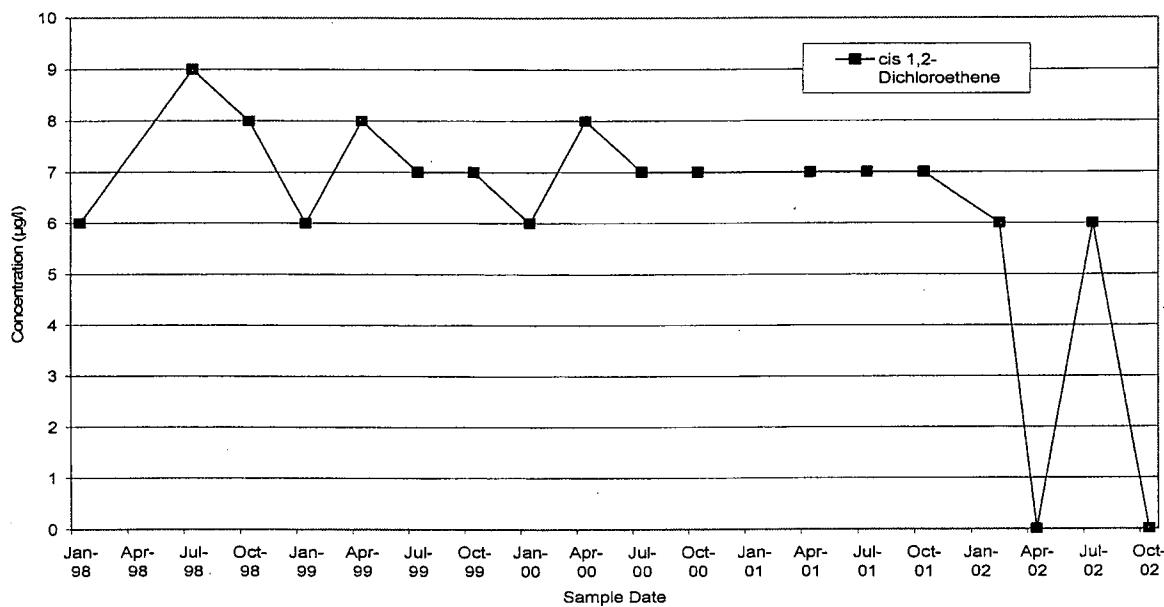


CHRIN BROTHERS LANDFILL
MW-9
TIME SERIES CHARTS

CHLOROBENZENE
Cleanup Level (ESP) = 100 µg/l



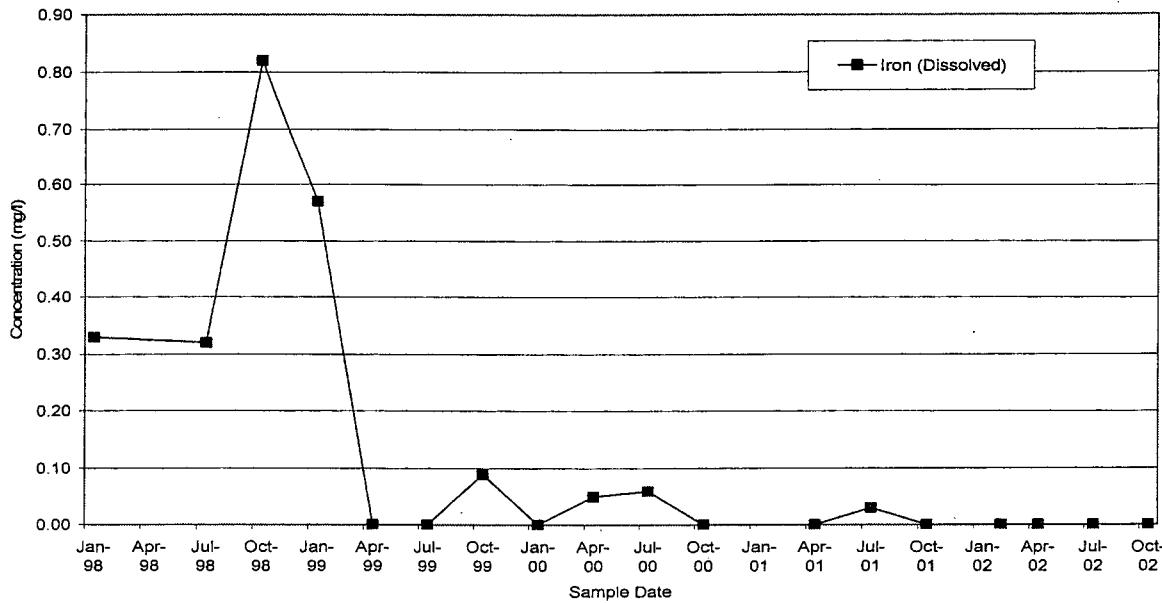
cis 1,2-DICHLOROETHENE
Cleanup Level (ESP) = 70 µg/l



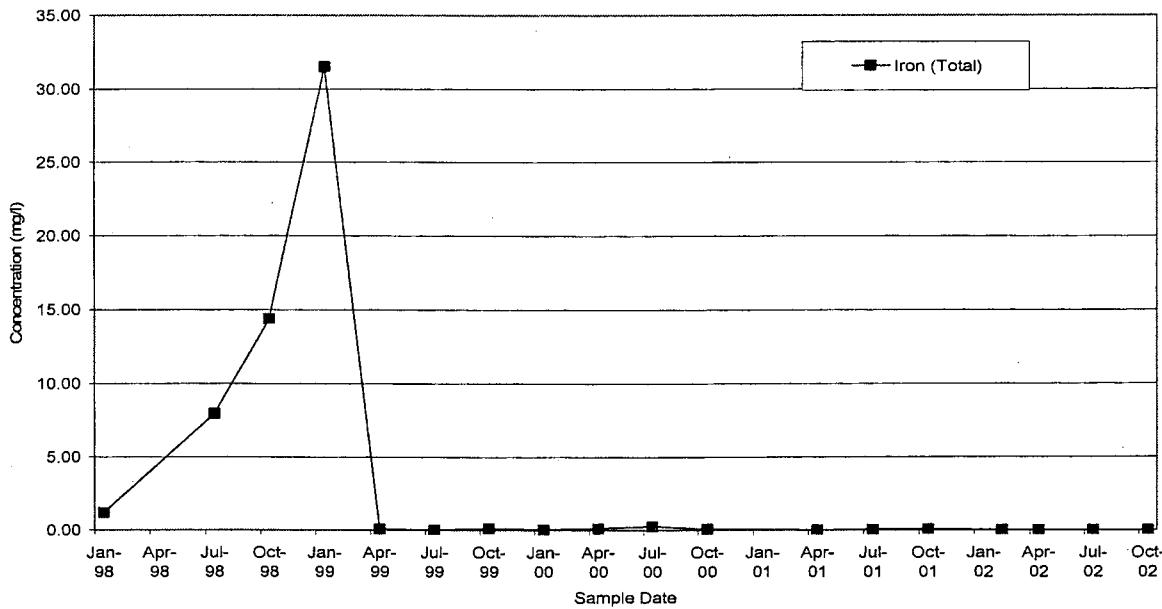
CHRIN BROTHERS LANDFILL
MW-9
TIME SERIES CHARTS

ORIGINAL

IRON, DISSOLVED



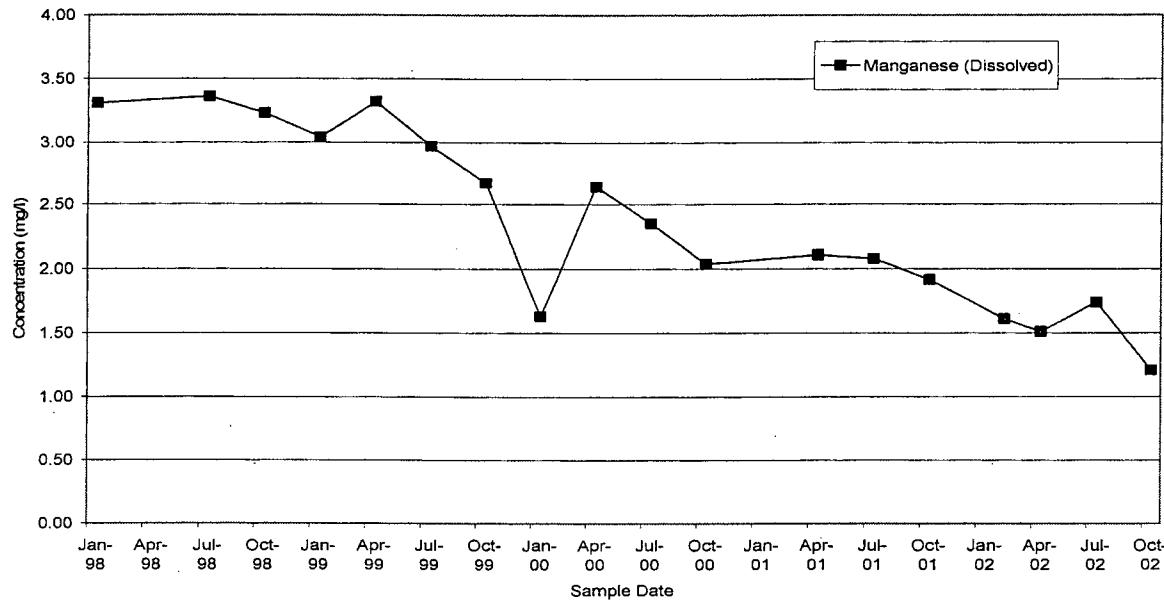
IRON, TOTAL



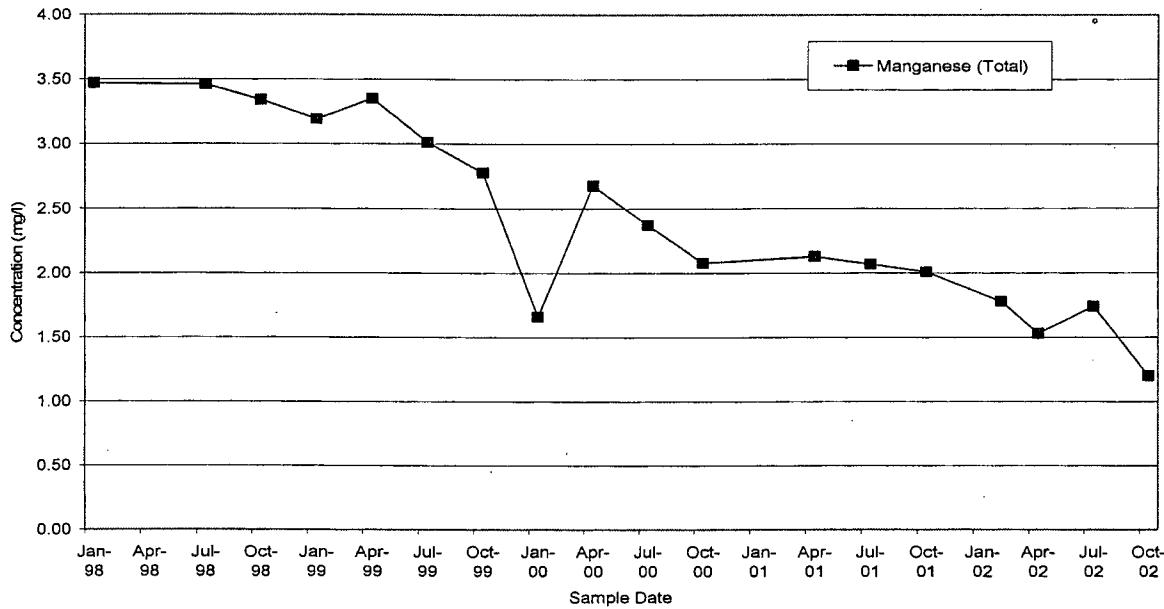
CHRIN BROTHERS LANDFILL
MW-9
TIME SERIES CHARTS

ORIGINAL

MANGANESE, DISSOLVED



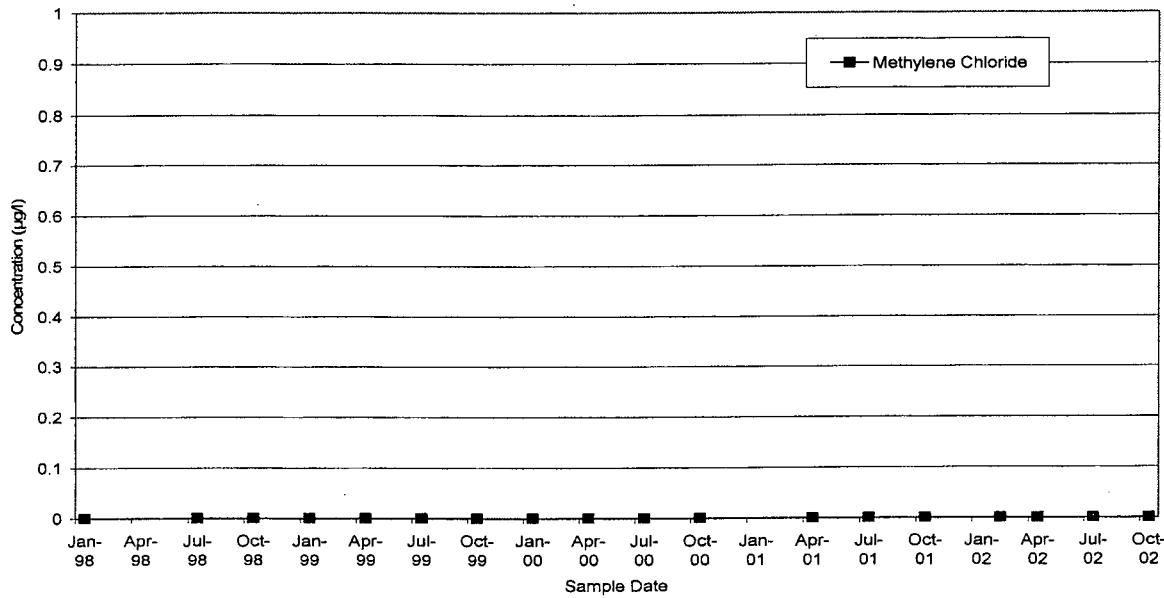
MANGANESE, TOTAL



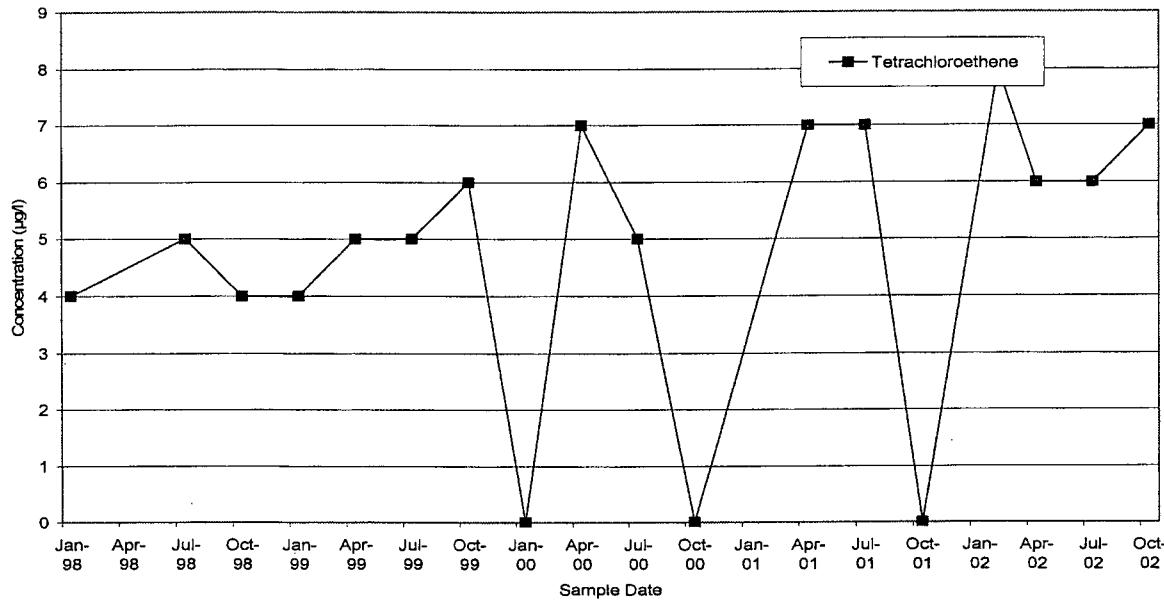
CHRIN BROTHERS LANDFILL
MW-9
TIME SERIES CHARTS

ORIGINAL

METHYLENE CHLORIDE
Cleanup Level (ESP) = 5 µg/l



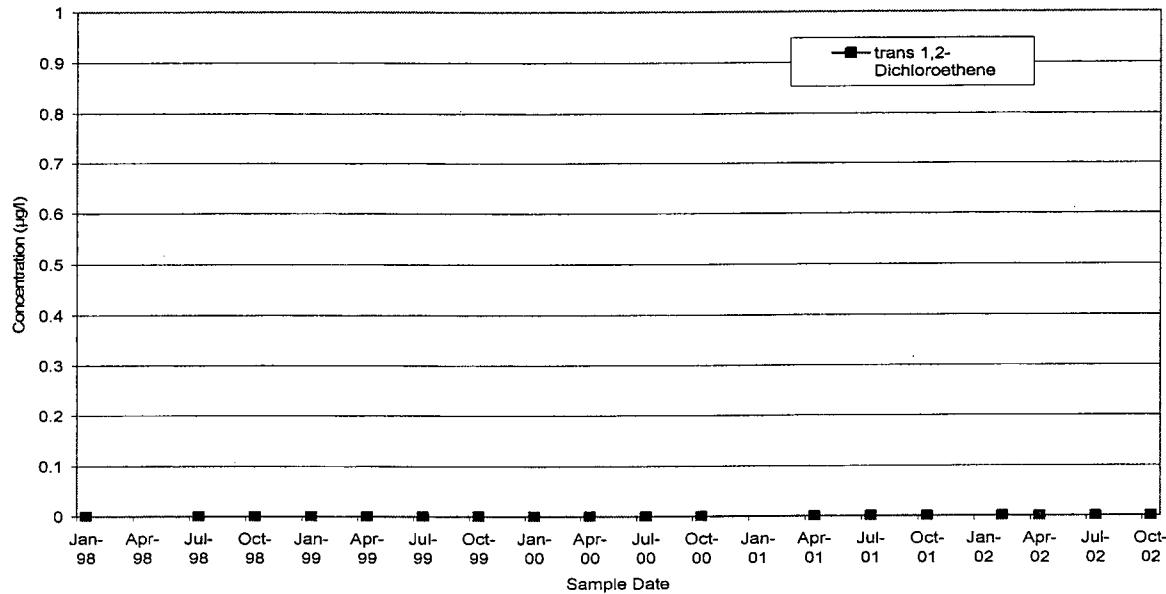
TETRACHLOROETHENE
Cleanup Level (ESP) = 5 µg/l



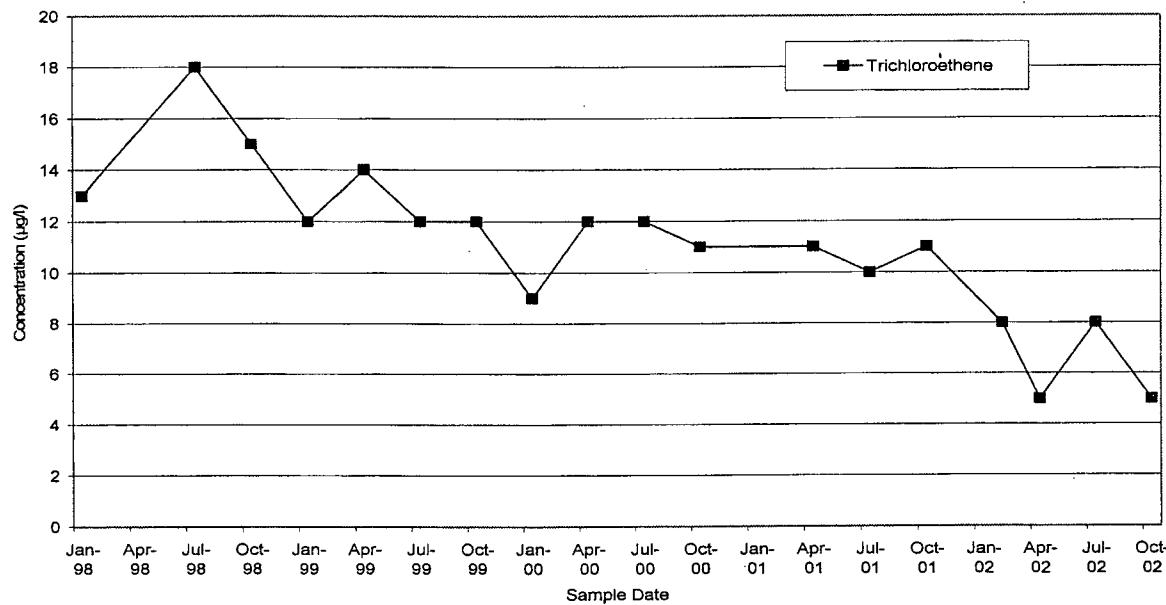
CHRIN BROTHERS LANDFILL
MW-9
TIME SERIES CHARTS

ORIGINAL

trans 1,2-DICHLOROETHENE
Cleanup Level (ESP) = 100 µg/l



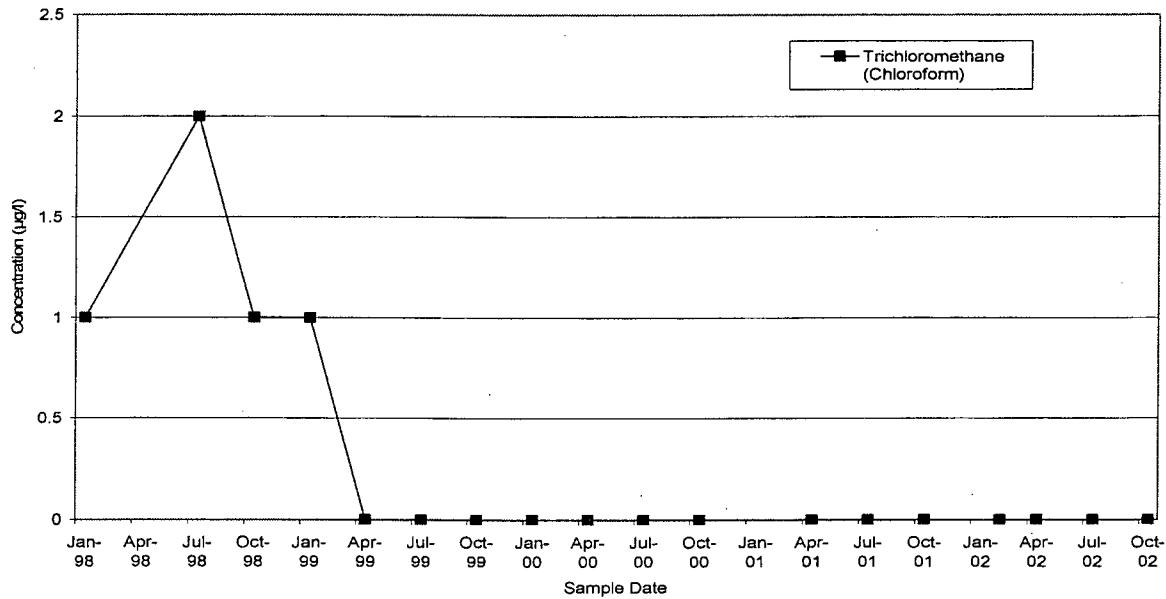
TRICHLOROETHENE
Cleanup Level (ESP) = 5 µg/l



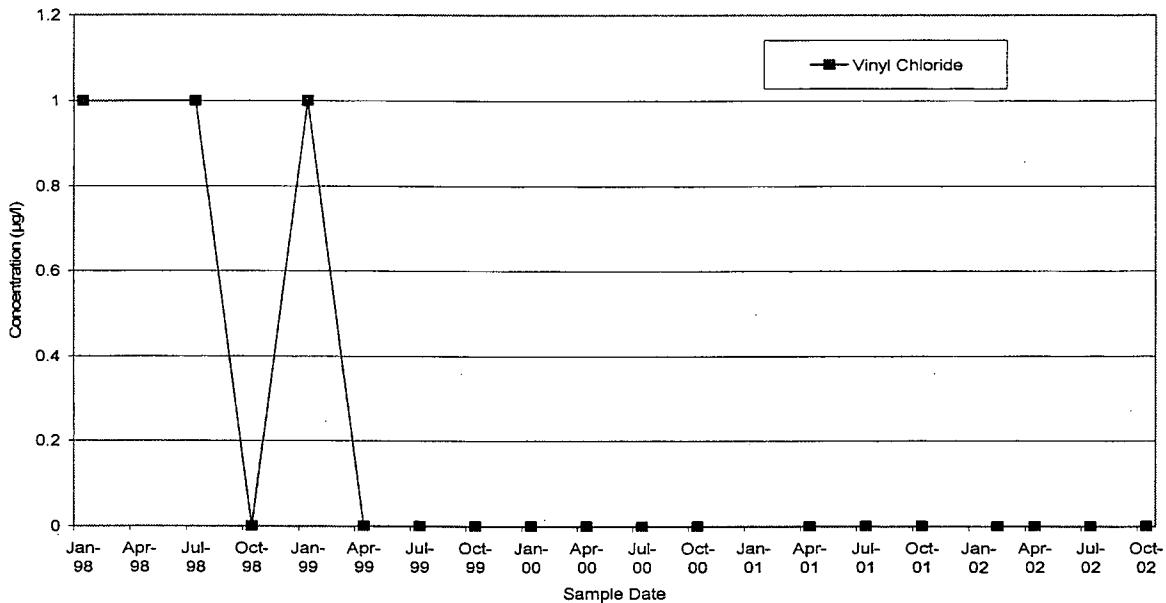
CHRIN BROTHERS LANDFILL
MW-9
TIME SERIES CHARTS

ORIGINAL

TRICHLOROMETHANE
Cleanup Level (ESP) = 100 µg/l



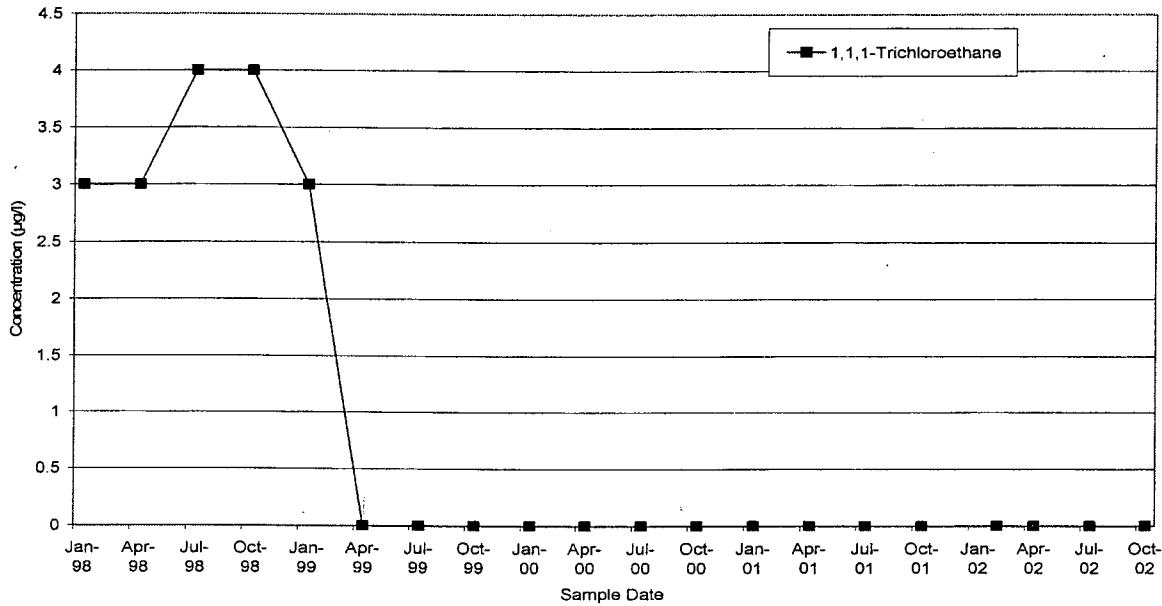
VINYL CHLORIDE
Cleanup Level (ESP) = 2 µg/l



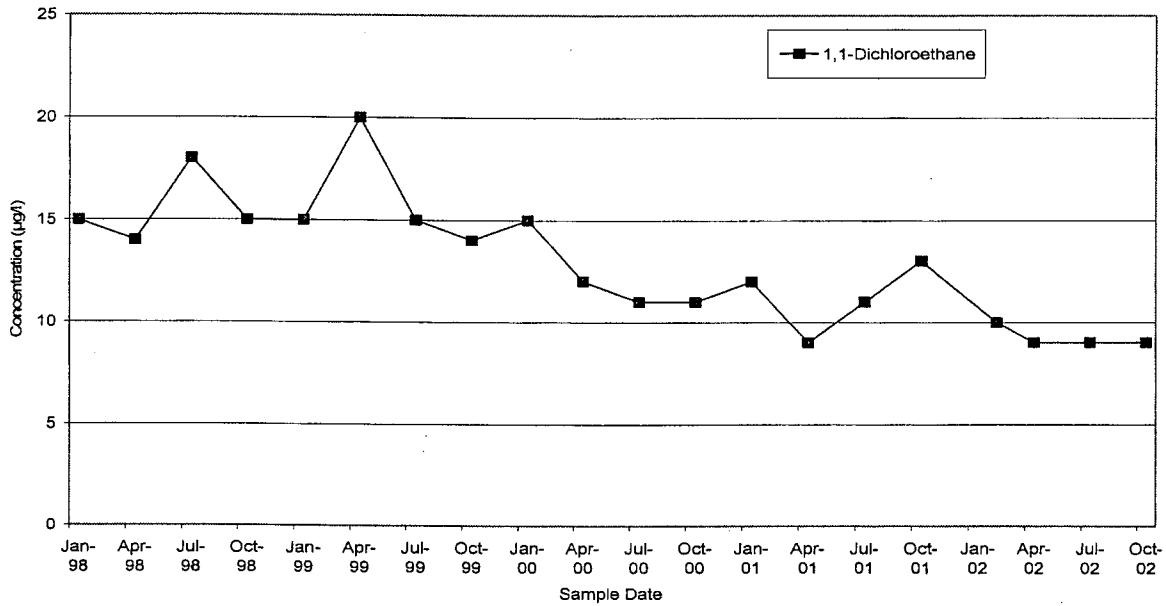
CHRIN BROTHERS LANDFILL
PZ-3
TIME SERIES CHARTS

1,1,1-TRICHLOROETHANE
Cleanup Level (ESP) = 200 µg/l

ORIGINAL



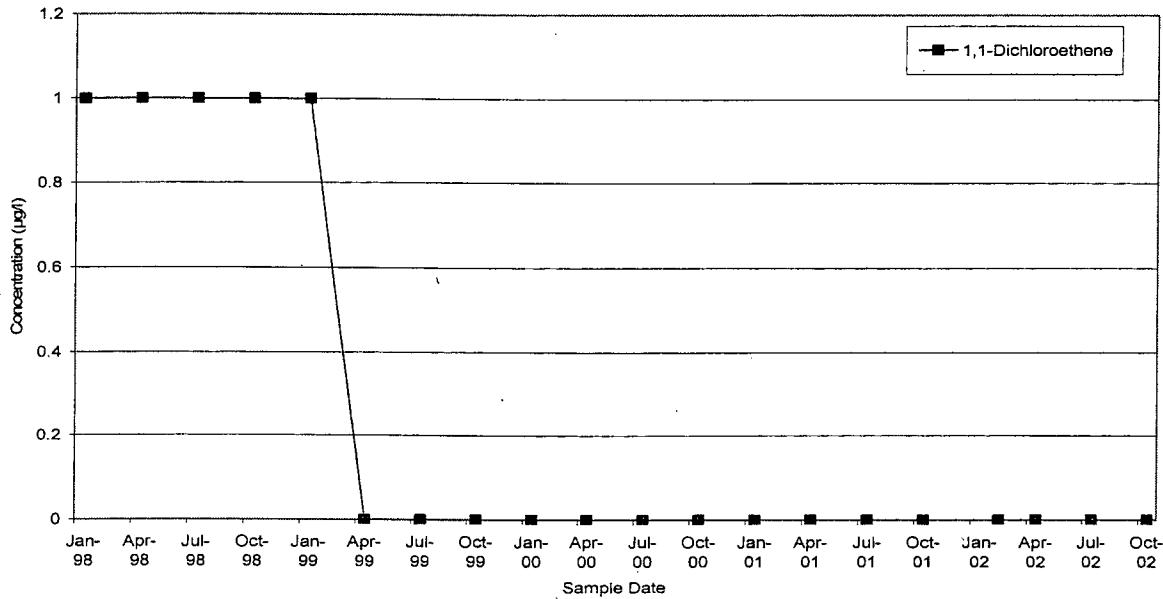
1,1-DICHLOROETHANE
Cleanup Level (ESP) = 27 µg/l



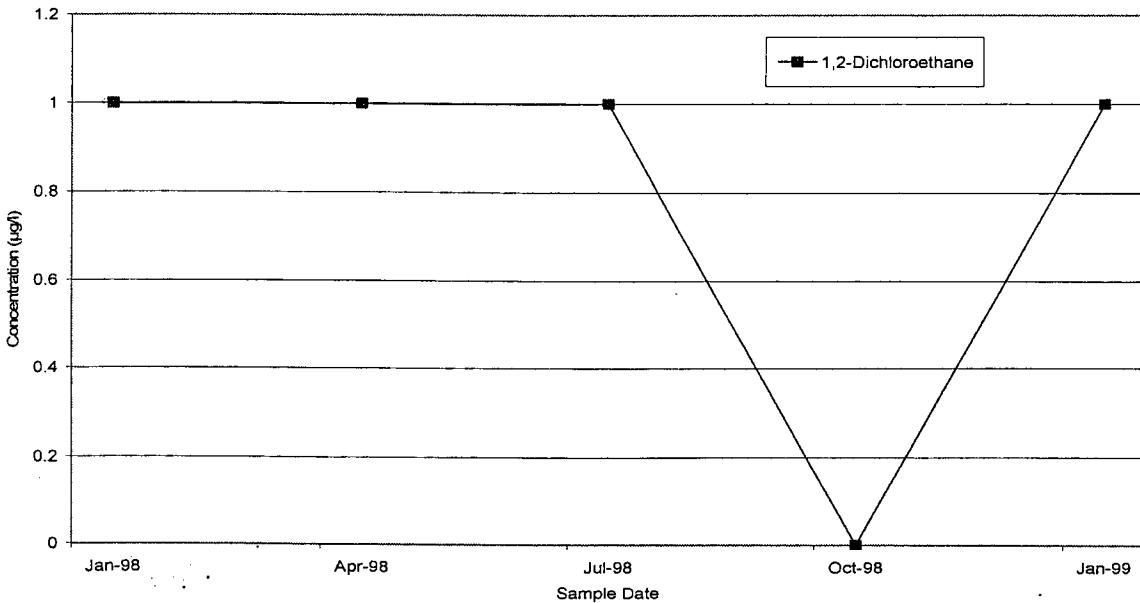
CHRIN BROTHERS LANDFILL
PZ-3
TIME SERIES CHARTS

ORIGINAL

1,1-DICHLOROETHENE
Cleanup Level (ESP) = 7 µg/l



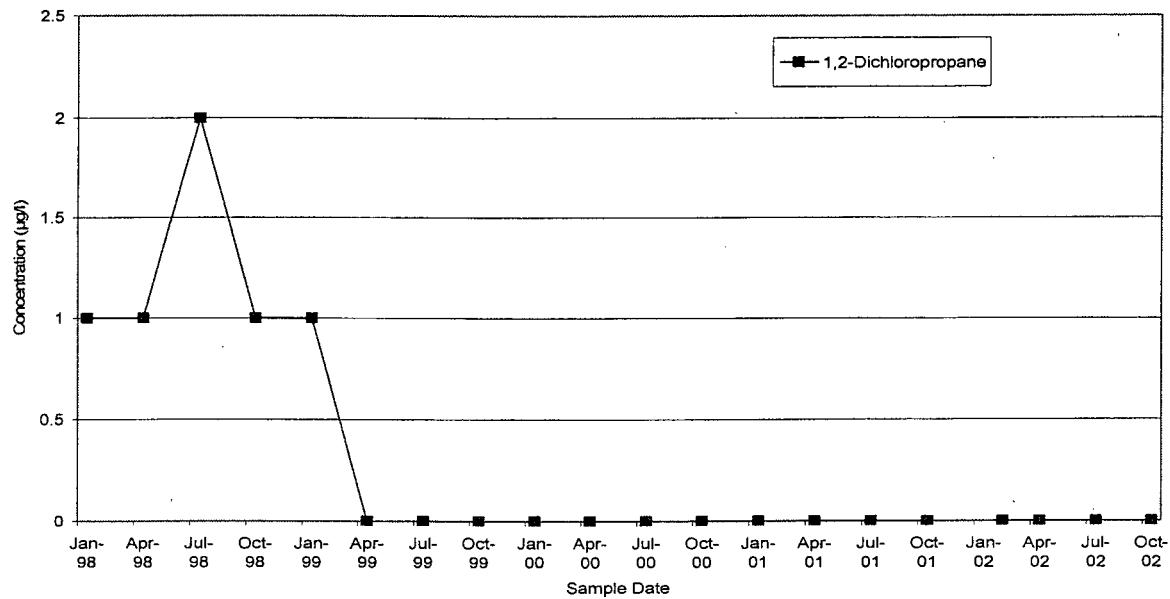
1,2-DICHLOROETHANE
Cleanup Level (ESP) = 5 µg/l



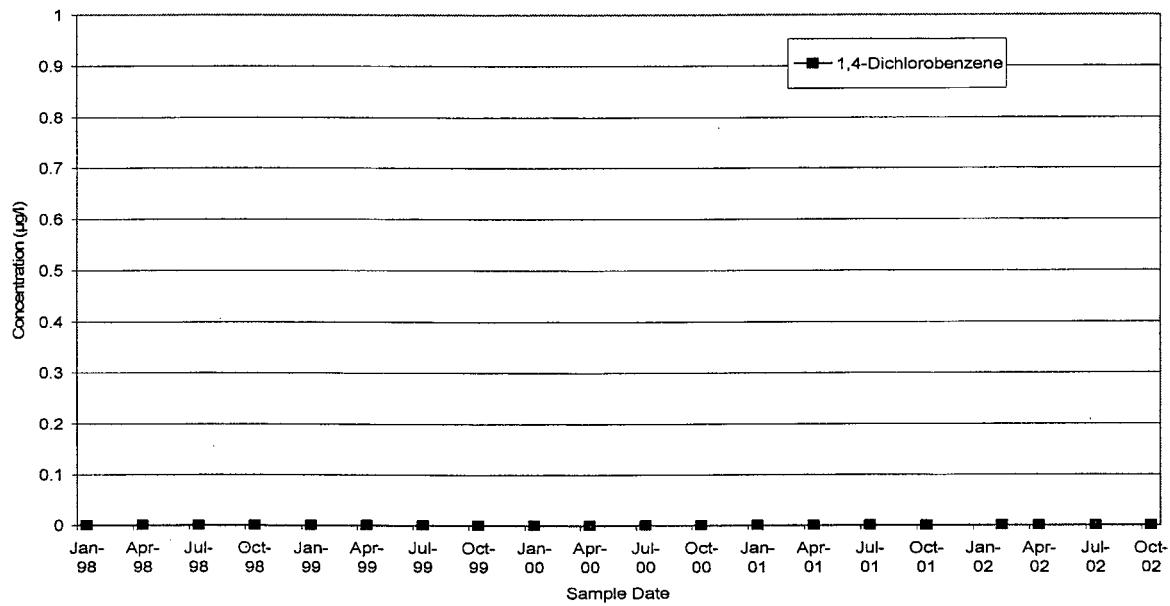
CHRIN BROTHERS LANDFILL
PZ-3
TIME SERIES CHARTS

ORIGINAL

1,2-DICHLOROPROPANE
Cleanup Level (ESP) = 5 $\mu\text{g/l}$

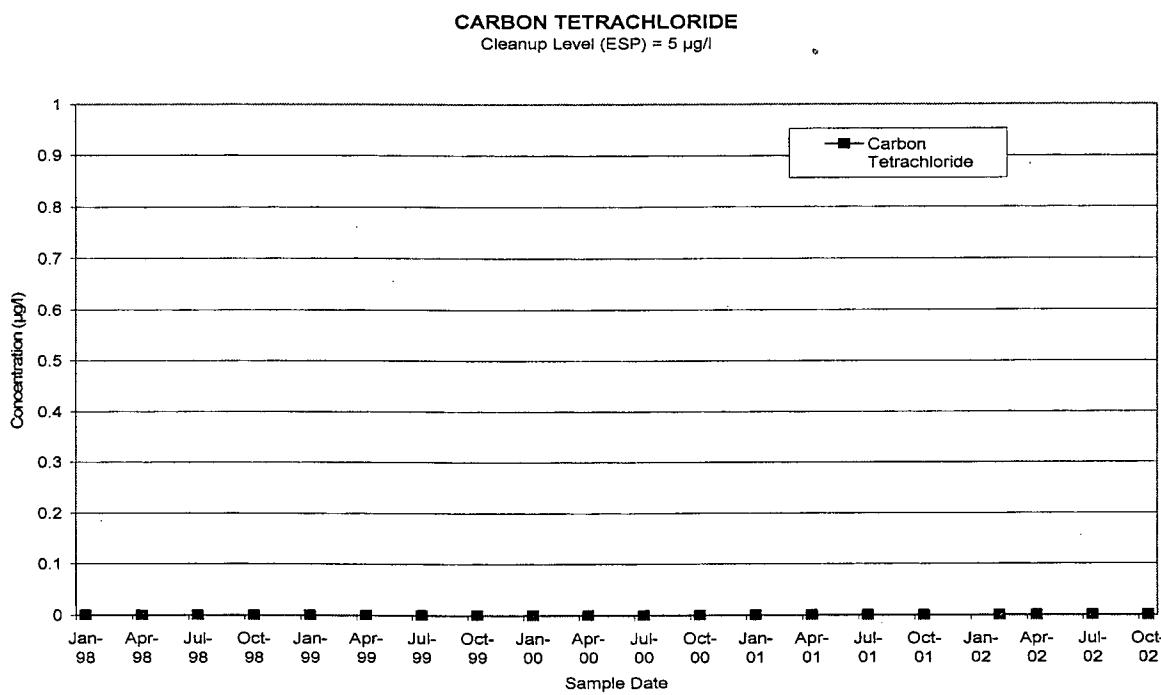
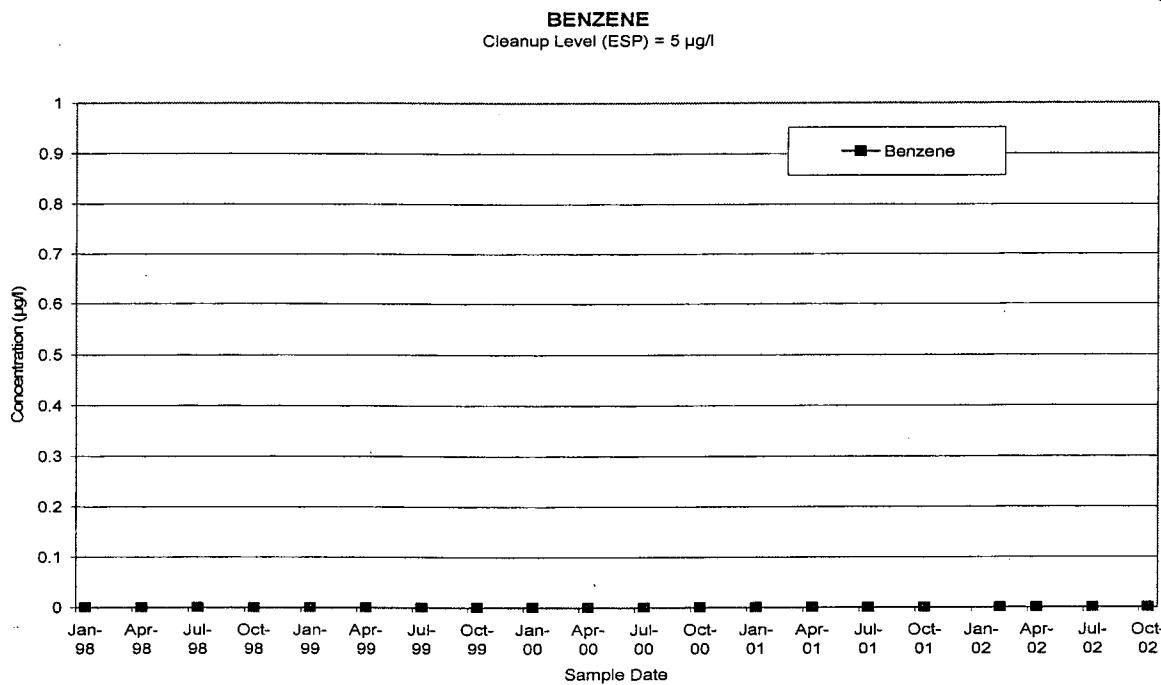


1,4-DICHLOROBENZENE
Cleanup Level (ESP) = 75 $\mu\text{g/l}$



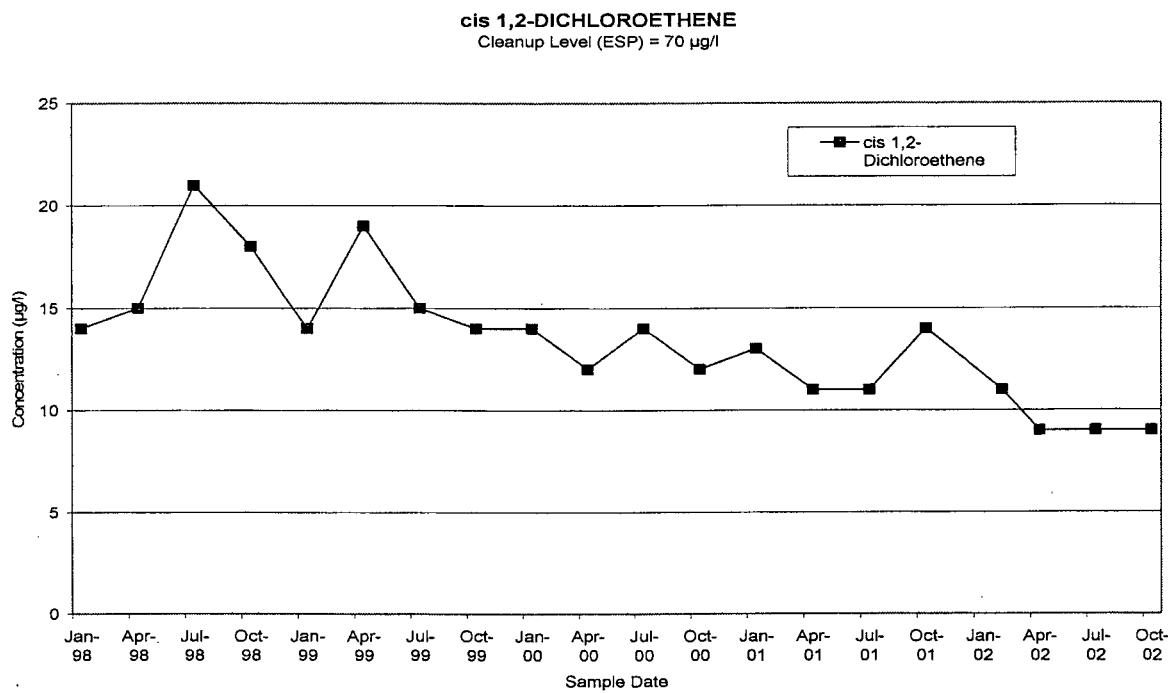
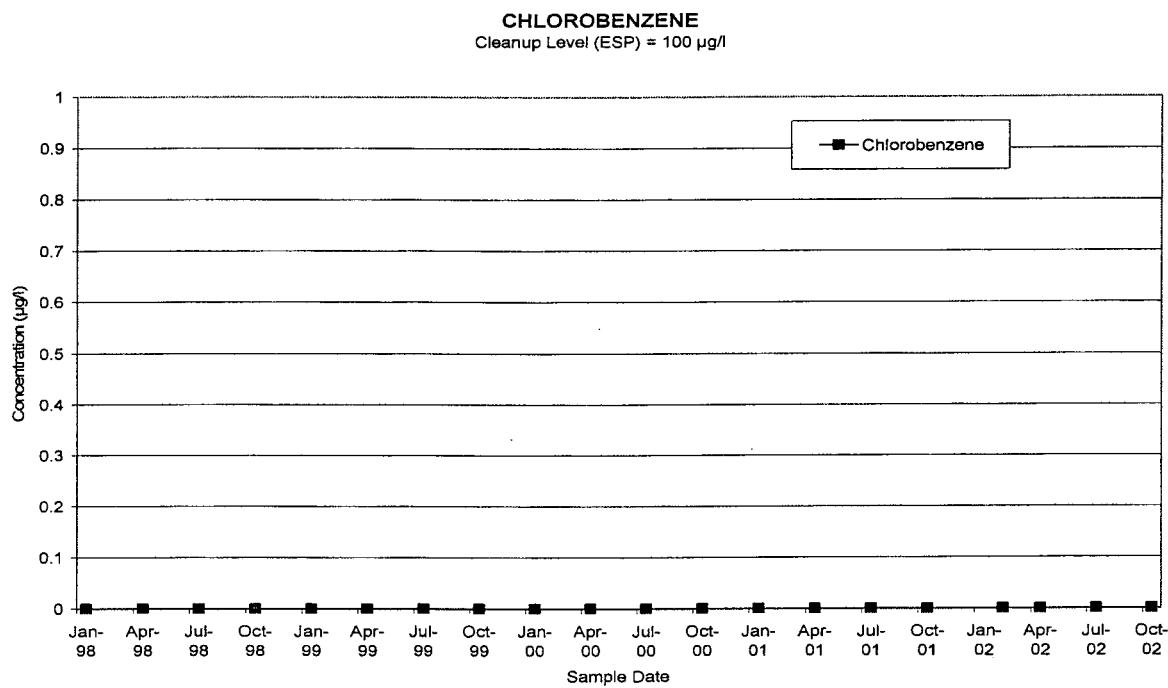
CHRIN BROTHERS LANDFILL
PZ-3
TIME SERIES CHARTS

ORIGINAL



CHRIN BROTHERS LANDFILL
PZ-3
TIME SERIES CHARTS

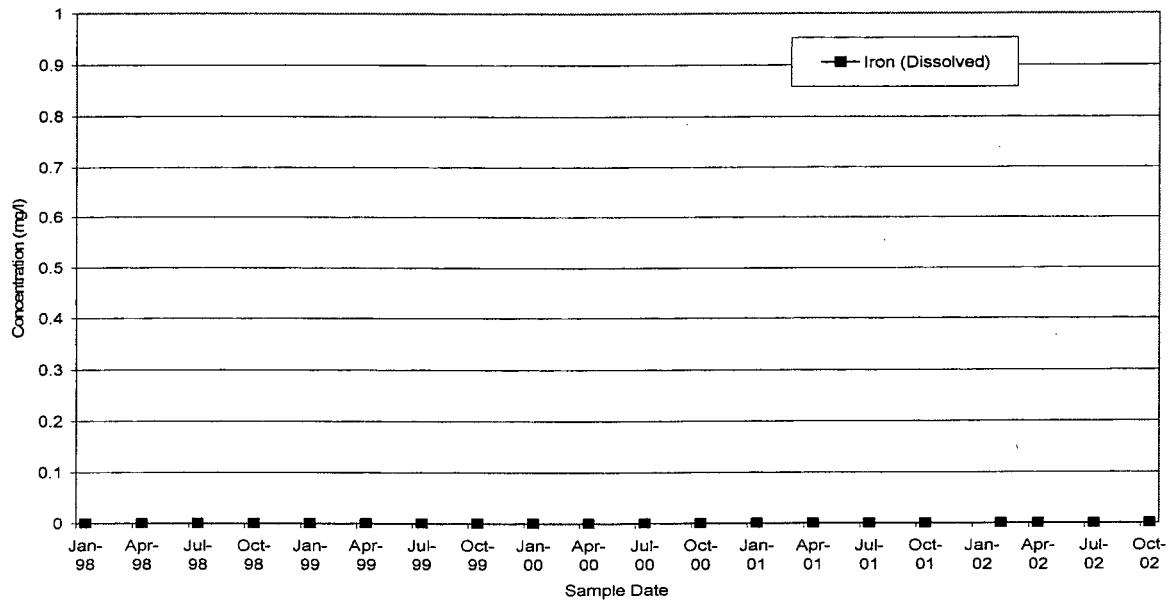
ORIGINAL



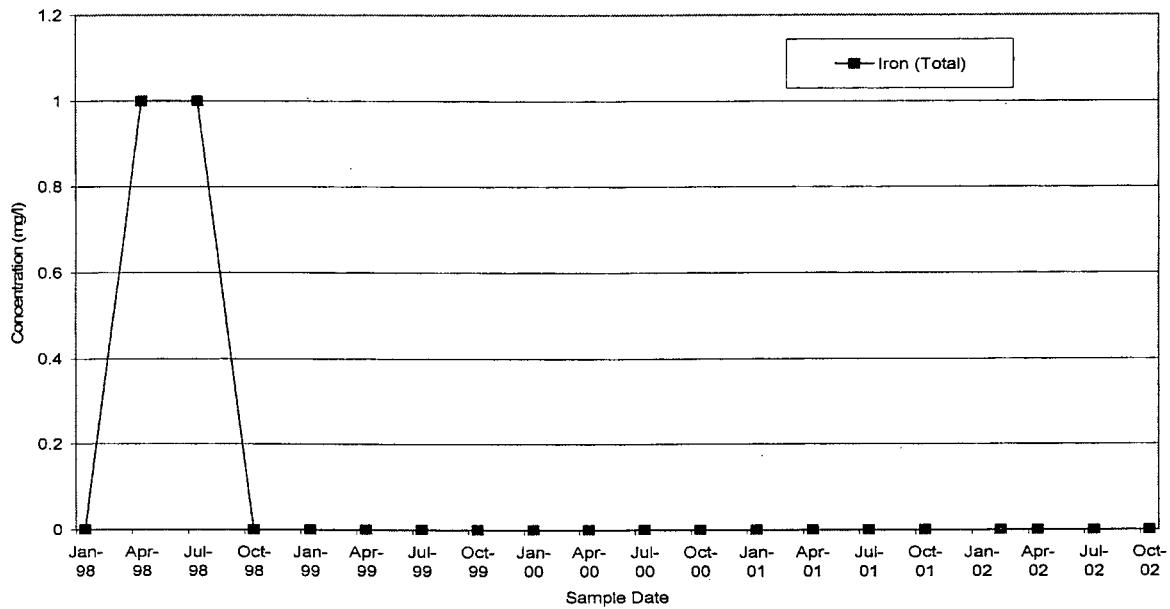
CHRIN BROTHERS LANDFILL
PZ-3
TIME SERIES CHARTS

ORIGINAL

IRON, DISSOLVED



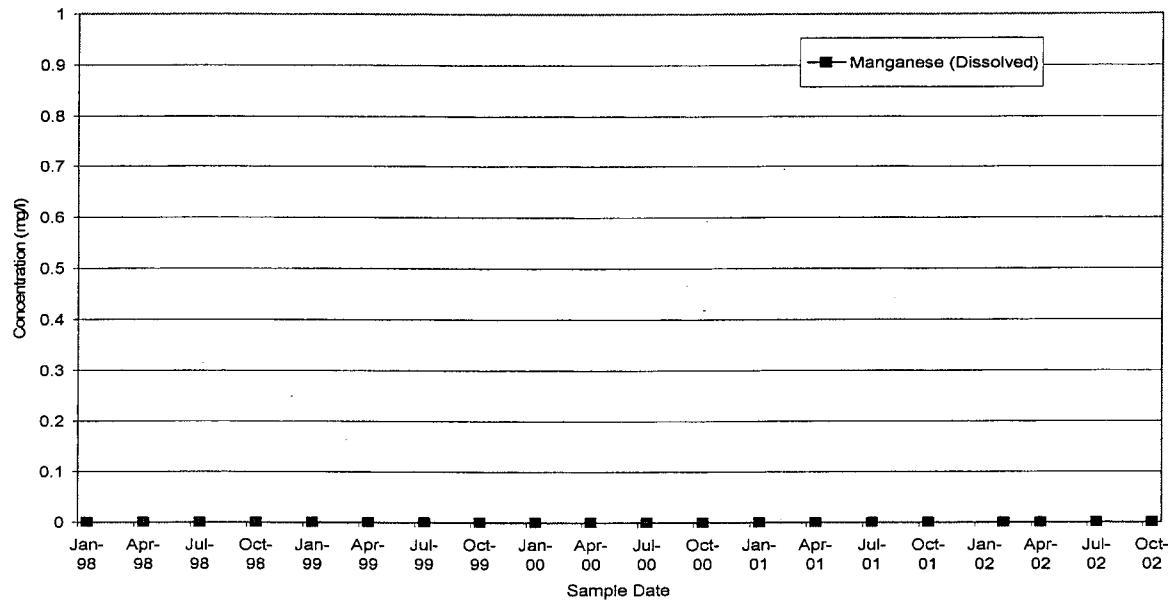
IRON, TOTAL



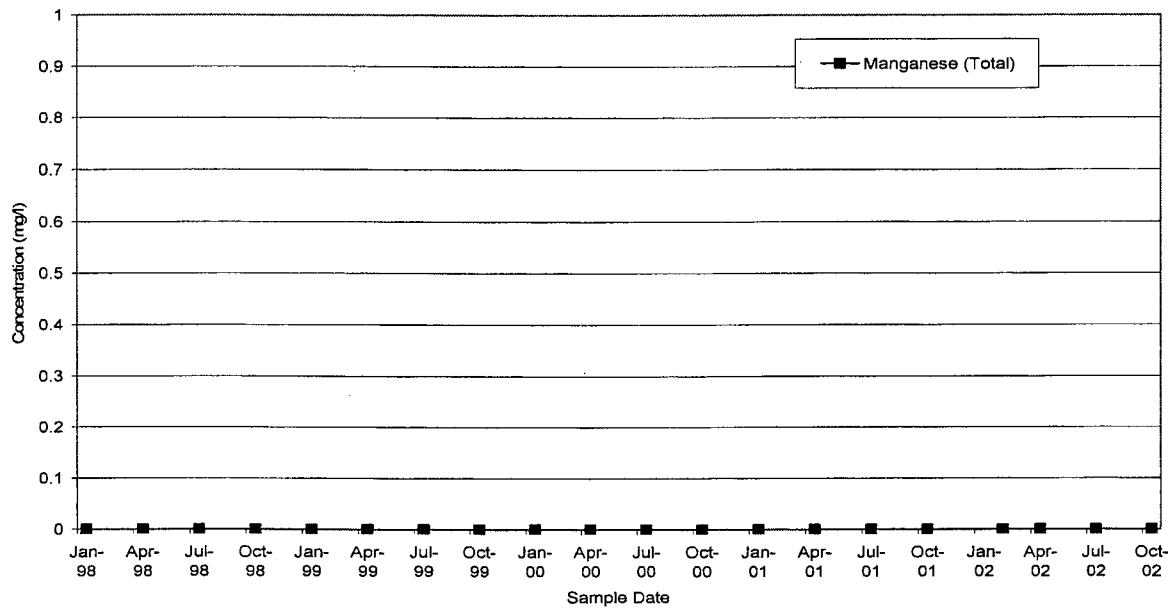
CHRIN BROTHERS LANDFILL
PZ-3
TIME SERIES CHARTS

ORIGINAL

MANGANESE, DISSOLVED



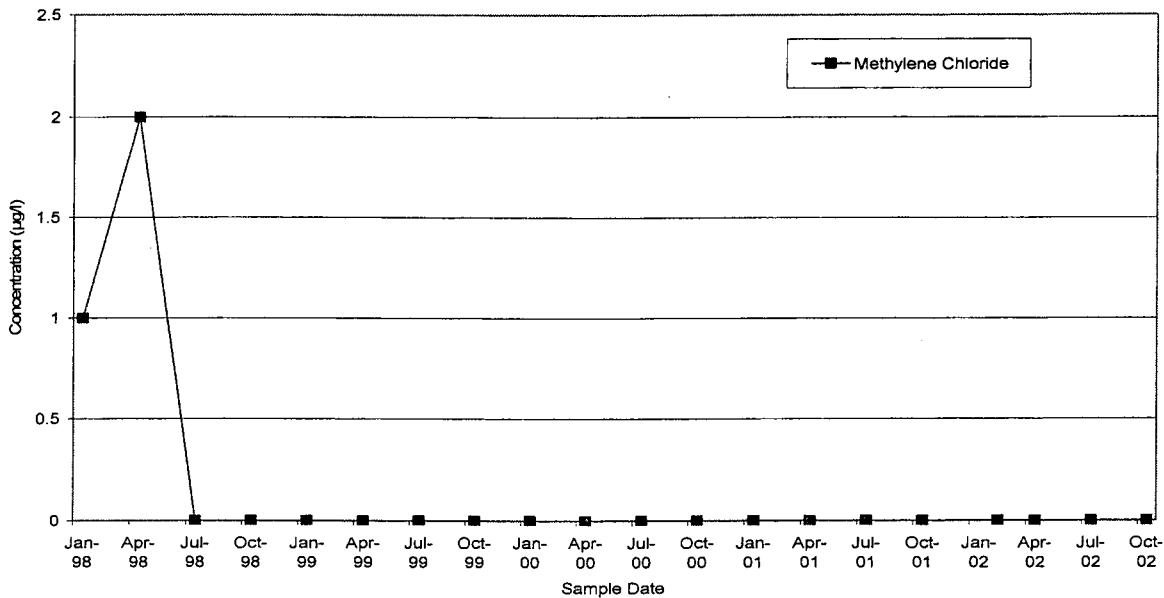
MANGANESE, TOTAL



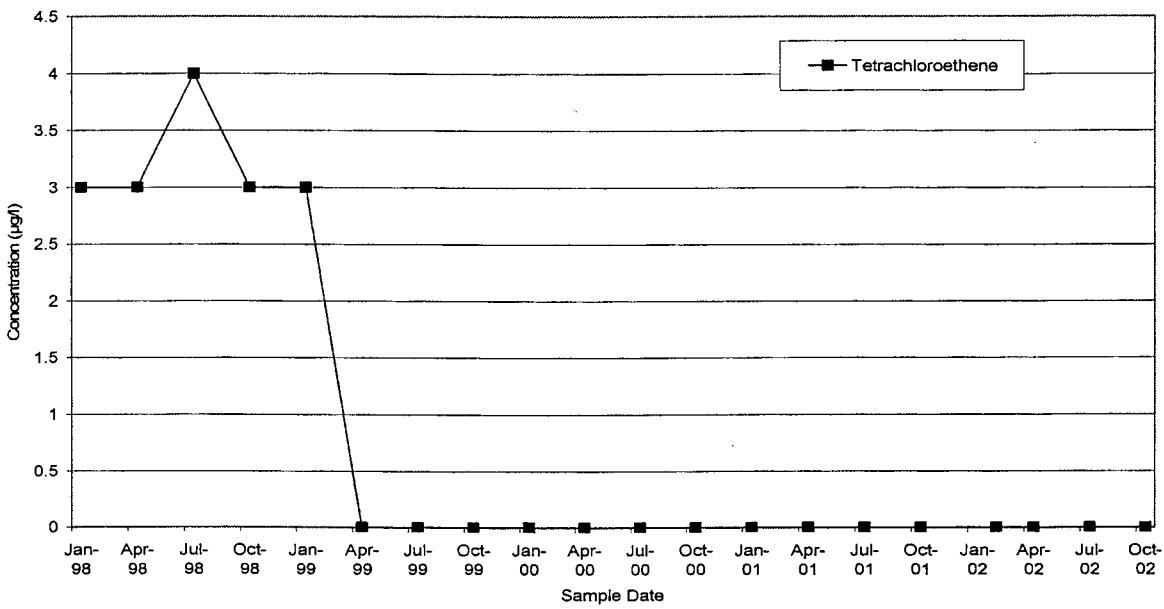
CHRIN BROTHERS LANDFILL
PZ-3
TIME SERIES CHARTS

ORIGINAL

METHYLENE CHLORIDE
Cleanup Level (ESP) = 5 µg/l



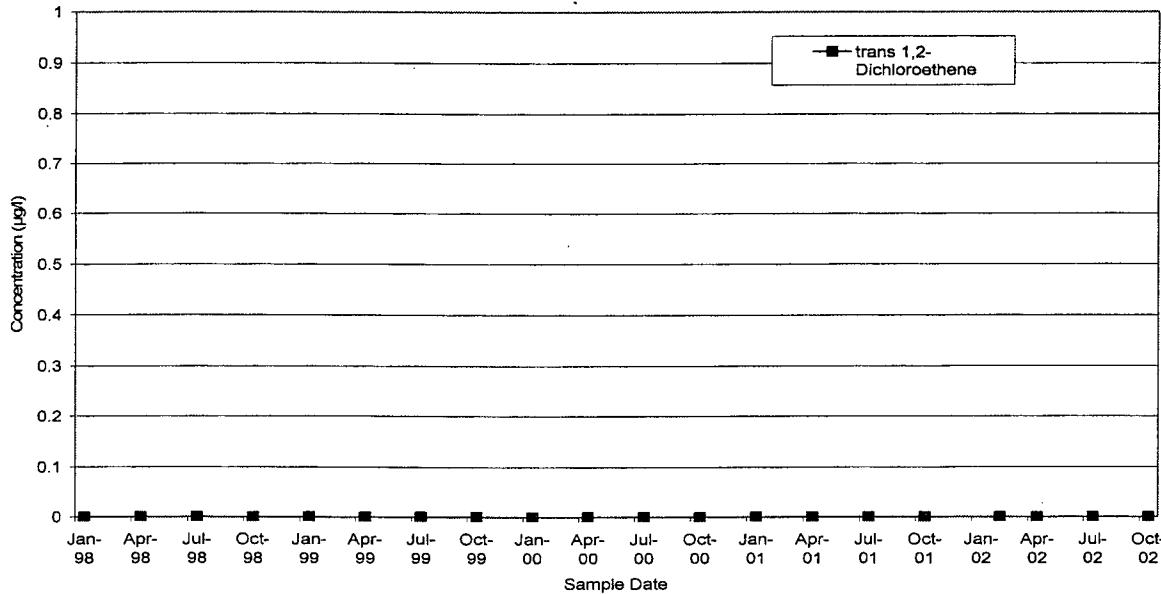
TETRACHLOROETHENE
Cleanup Level (ESP) = 5 µg/l



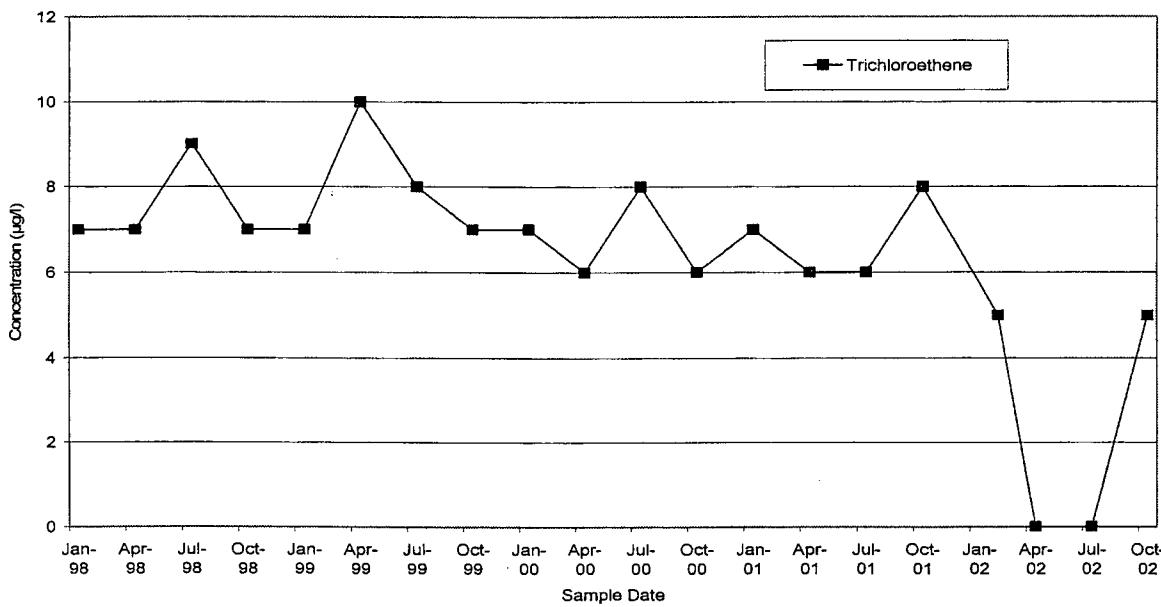
CHRIN BROTHERS LANDFILL
PZ-3
TIME SERIES CHARTS

ORIGINAL

trans 1,2-DICHLOROETHENE
Cleanup Level (ESP) = 100 µg/l



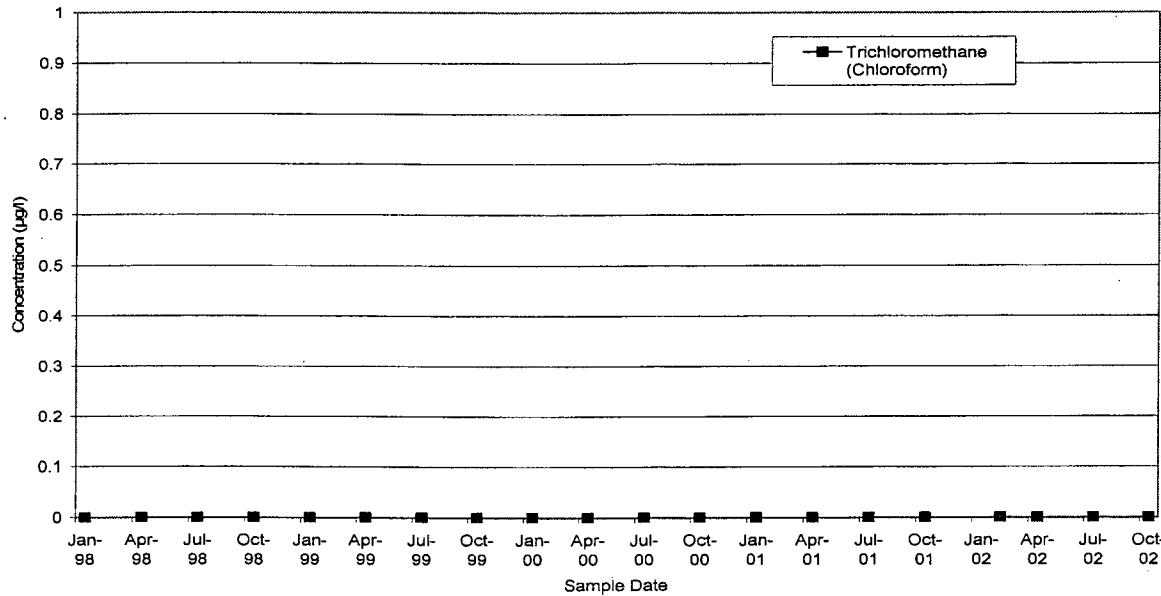
TRICHLOROETHENE
Cleanup Level (ESP) = 5 µg/l



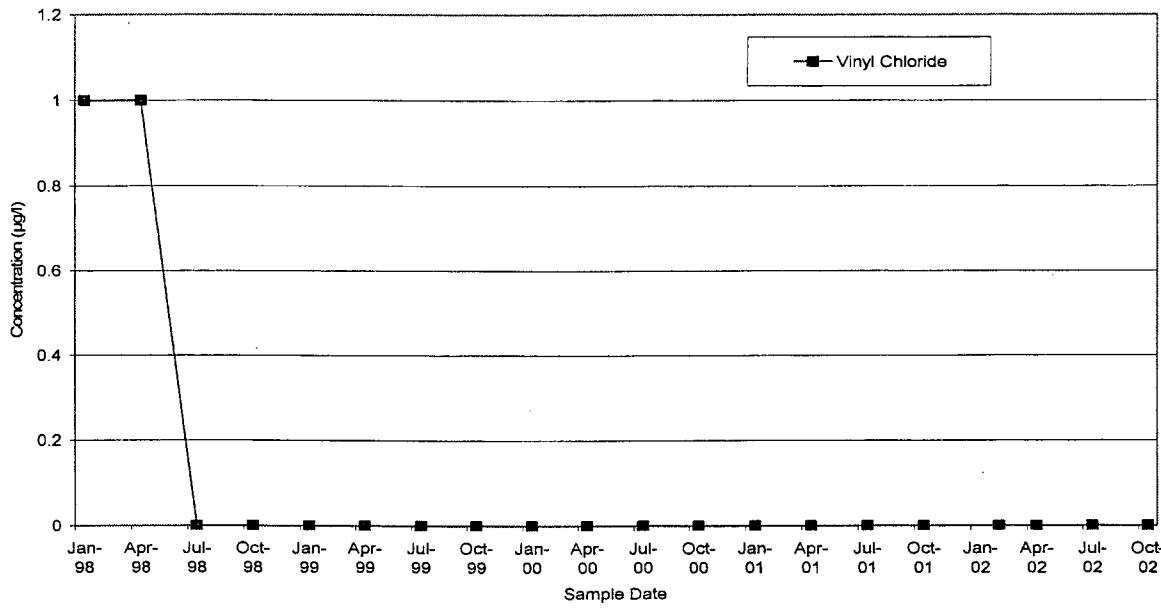
CHRIN BROTHERS LANDFILL
PZ-3
TIME SERIES CHARTS

ORIGINAL

TRICHLOROMETHANE
Cleanup Level (ESP) = 100 µg/l



VINYL CHLORIDE
Cleanup Level (ESP) = 2 µg/l



ORIGINAL

ORIGINAL

APPENDIX C

GROUNDWATER TREATMENT SYSTEM PUMPING TOTALS

Groundwater Pumping Totals

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
7/2/1999	1,127,594.00	2,498,151.00
7/6/1999	1,377,411.00	2,679,121.00
7/7/1999	1,442,941.00	2,728,417.00
7/8/1999	1,501,983.00	2,772,431.00
7/9/1999	1,558,583.00	2,813,723.00
7/10/1999	1,615,656.00	2,857,924.00
7/12/1999	1,654,179.00	2,888,292.00
7/13/1999	1,695,156.00	2,920,261.00
7/14/1999	1,747,777.00	2,959,736.00
7/15/1999	1,800,245.00	2,998,237.00
7/16/1999	1,852,754.00	3,036,595.00
7/17/1999	1,913,781.00	3,080,298.00
7/19/1999	2,033,914.00	3,165,782.00
7/20/1999	2,097,384.00	3,215,591.00
7/21/1999	2,170,988.00	3,268,673.00
7/22/1999	2,243,398.00	3,320,387.00
7/23/1999	2,316,959.00	3,372,119.00
7/24/1999	2,389,662.00	3,424,657.00
7/25/1999	2,535,556.00	3,528,498.00
7/27/1999	2,609,183.00	3,580,796.00
7/28/1999	2,681,918.00	3,632,541.00
7/29/1999	2,736,147.00	3,659,342.00
7/30/1999	2,806,654.00	3,692,682.00
7/31/1999	2,886,382.00	3,728,877.00

ORIGINAL

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
8/2/1999	3,032,442.00	3,790,158.00
8/3/1999	3,087,348.00	3,820,729.00
8/4/1999	3,163,582.00	3,857,529.00
8/6/1999	3,304,878.00	3,925,316.00
8/7/1999	3,372,658.00	3,957,481.00
8/9/1999	3,520,814.00	4,026,635.00
8/10/1999	3,586,882.00	4,057,379.00
8/11/1999	3,676,761.00	4,099,192.00
8/12/1999	3,734,296.00	4,125,775.00
8/13/1999	3,820,384.00	4,165,571.00
8/16/1999	4,031,125.00	4,261,998.00
8/17/1999	4,085,978.00	4,288,685.00
8/18/1999	4,141,124.00	4,355,611.00
8/19/1999	4,215,282.00	4,437,693.00
8/20/1999	4,292,988.00	4,521,571.00
8/21/1999	4,356,332.00	4,587,962.00
8/23/1999	4,513,126.00	4,746,287.00
8/24/1999	4,580,253.00	4,813,779.00
8/25/1999	4,657,126.00	4,890,855.00
8/26/1999	4,743,681.00	4,973,856.00
8/27/1999	4,785,931.00	4,999,266.00
8/30/1999	4,976,151.00	5,115,417.00
8/31/1999	5,041,574.00	5,155,998.00
9/1/1999	5,108,961.00	5,195,139.00
9/2/1999	5,168,572.00	5,231,248.00
9/3/1999	5,232,591.00	5,269,582.00

ORIGINAL

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
9/4/1999	5,292,964.00	5,304,879.00
9/7/1999	5,482,763.00	5,418,127.00
9/8/1999	5,545,735.00	5,455,611.00
9/9/1999	5,609,297.00	5,493,466.00
9/10/1999	5,674,346.00	5,532,977.00
9/11/1999	5,733,914.00	5,567,231.00
9/13/1999	5,859,548.00	5,641,565.00
9/14/1999	5,922,653.00	5,678,792.00
9/15/1999	5,985,201.00	5,715,776.00
9/16/1999	6,049,695.00	5,753,841.00
9/18/1999	6,174,872.00	5,841,762.00
9/20/1999	6,301,531.00	5,931,131.00
9/21/1999	6,361,945.00	5,973,965.00
9/22/1999	6,423,889.00	6,017,253.00
9/23/1999	6,485,312.00	6,060,625.00
9/24/1999	6,547,145.00	6,105,219.00
9/25/1999	6,606,565.00	6,148,131.00
9/27/1999	6,743,133.00	6,240,175.00
9/28/1999	6,788,571.00	6,279,324.00
9/29/1999	6,851,774.00	6,324,948.00
9/30/1999	6,910,163.00	6,367,262.00
10/1/1999	6,971,314.00	6,411,669.00
10/2/1999	7,029,415.00	6,453,322.00
10/4/1999	7,146,177.00	6,537,943.00
10/5/1999	0.00	0.00
10/6/1999	7,267,728.00	6,624,368.00

ORIGINAL

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
10/7/1999	7,323,512.00	6,664,465.00
10/8/1999	7,382,385.00	6,706,651.00
10/11/1999	7,557,662.00	6,832,579.00
10/14/1999	7,732,927.00	6,958,686.00
10/15/1999	7,791,615.00	7,001,962.00
10/18/1999	7,969,325.00	7,129,261.00
10/19/1999	8,030,521.00	7,173,411.00
10/20/1999	8,082,124.00	7,210,725.00
10/21/1999	8,140,759.00	7,253,121.00
10/22/1999	8,204,519.00	7,299,211.00
10/25/1999	8,376,395.00	7,423,877.00
10/26/1999	8,430,111.00	7,462,854.00
10/27/1999	8,490,413.00	7,506,612.00
10/28/1999	8,544,544.00	7,545,839.00
10/29/1999	8,600,453.00	7,586,258.00
11/1/1999	8,781,411.00	7,717,171.00
11/2/1999	8,833,733.00	7,754,949.00
11/3/1999	8,893,731.00	7,798,415.00
11/4/1999	8,947,113.00	7,836,956.00
11/5/1999	9,004,123.00	7,877,998.00
11/8/1999	9,158,349.00	7,952,152.00
11/10/1999	9,271,315.00	8,032,523.00
11/11/1999	9,328,382.00	8,073,211.00
11/12/1999	9,389,176.00	8,116,559.00
11/15/1999	9,563,918.00	8,240,547.00
11/16/1999	9,618,994.00	8,279,936.00

ORIGINAL

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
11/17/1999	9,676,118.00	8,320,266.00
11/18/1999	9,735,323.00	8,362,146.00
11/19/1999	9,795,141.00	8,404,449.00
11/22/1999	9,970,235.00	8,530,312.00
11/23/1999	10,022,190.00	8,567,627.00
11/29/1999	10,369,960.00	8,812,839.00
11/30/1999	10,419,650.00	8,848,347.00
12/1/1999	10,479,410.00	8,890,227.00
12/2/1999	10,537,540.00	8,930,887.00
12/3/1999	10,597,350.00	8,972,542.00
12/6/1999	10,780,120.00	9,095,611.00
12/7/1999	10,836,640.00	9,133,615.00
12/8/1999	10,899,210.00	9,175,474.00
12/9/1999	10,958,280.00	9,214,651.00
12/10/1999	11,019,730.00	9,255,983.00
12/14/1999	11,261,460.00	9,418,136.00
12/15/1999	11,310,370.00	9,451,358.00
12/16/1999	11,372,170.00	9,493,464.00
12/17/1999	11,432,250.00	9,534,393.00
12/20/1999	11,610,350.00	9,656,112.00
12/21/1999	11,670,980.00	9,697,112.00
12/22/1999	11,729,130.00	9,737,782.00
12/23/1999	11,791,120.00	9,780,876.00
12/24/1999	11,853,940.00	9,824,452.00
12/27/1999	12,039,800.00	9,956,146.00
12/28/1999	12,102,590.00	10,000,950.00

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
12/29/1999	12,167,390.00	10,045,260.00
1/3/2000	12,483,110.00	10,264,690.00
1/4/2000	12,547,690.00	10,309,470.00
1/5/2000	12,568,410.00	10,326,150.00
1/6/2000	12,619,360.00	10,366,910.00
1/7/2000	12,672,780.00	10,411,200.00
1/10/2000	12,827,270.00	10,543,760.00
1/11/2000	12,880,810.00	10,589,990.00
1/12/2000	12,931,740.00	10,631,550.00
1/13/2000	12,984,670.00	10,675,460.00
1/14/2000	13,037,460.00	10,719,310.00
1/17/2000	13,196,830.00	10,851,440.00
1/19/2000	13,301,910.00	10,938,120.00
1/20/2000	13,359,570.00	10,985,650.00
1/24/2000	13,562,780.00	11,155,140.00
1/25/2000	13,615,440.00	11,199,940.00
1/26/2000	0.00	0.00
1/27/2000	13,733,270.00	11,283,670.00
1/28/2000	13,808,370.00	11,327,330.00
1/31/2000	14,036,870.00	11,459,350.00
2/3/2000	14,091,830.00	11,489,970.00
2/4/2000	14,193,670.00	11,544,390.00
2/7/2000	14,409,460.00	11,659,990.00
2/8/2000	14,490,190.00	11,703,460.00
2/9/2000	14,571,620.00	11,747,580.00
2/10/2000	14,648,670.00	11,789,340.00

ORIGINAL

ORIGINAL

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
2/11/2000	14,727,530.00	11,832,140.00
2/14/2000	14,955,290.00	11,960,950.00
2/15/2000	15,030,110.00	12,002,390.00
2/16/2000	15,102,690.00	12,043,540.00
2/17/2000	15,178,720.00	12,086,850.00
2/18/2000	15,253,870.00	12,129,630.00
2/21/2000	15,475,870.00	12,256,150.00
2/22/2000	15,532,180.00	12,288,970.00
2/23/2000	15,608,450.00	12,331,570.00
2/24/2000	15,682,500.00	12,374,150.00
2/25/2000	15,756,120.00	12,416,340.00
2/28/2000	15,978,840.00	12,544,410.00
2/29/2000	16,053,460.00	12,587,600.00
3/1/2000	16,128,660.00	12,631,110.00
3/2/2000	16,202,840.00	12,674,150.00
3/3/2000	16,274,800.00	12,715,740.00
3/6/2000	16,498,560.00	12,846,340.00
3/7/2000	16,568,550.00	12,886,350.00
3/9/2000	16,721,780.00	12,973,350.00
3/10/2000	16,796,100.00	13,015,480.00
3/13/2000	17,025,710.00	13,144,760.00
3/14/2000	17,103,720.00	13,188,740.00
3/15/2000	17,174,560.00	13,229,000.00
3/16/2000	17,250,680.00	13,272,480.00
3/17/2000	17,323,830.00	13,314,470.00
3/20/2000	17,548,210.00	13,443,690.00

ORIGINAL

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
3/21/2000	17,621,000.00	13,485,210.00
3/22/2000	17,700,670.00	13,530,780.00
3/23/2000	17,771,120.00	13,570,980.00
3/24/2000	17,847,740.00	13,614,570.00
3/29/2000	17,961,210.00	13,678,480.00
3/31/2000	18,084,190.00	13,749,870.00
4/3/2000	18,284,750.00	13,868,190.00
4/6/2000	18,504,680.00	13,998,970.00
4/7/2000	18,575,860.00	14,040,290.00
4/10/2000	18,797,710.00	14,170,670.00
4/11/2000	18,873,200.00	14,214,620.00
4/12/2000	18,944,320.00	14,251,190.00
4/13/2000	19,017,170.00	14,293,520.00
4/14/2000	19,092,110.00	14,338,880.00
4/17/2000	19,307,130.00	14,468,750.00
4/18/2000	19,383,640.00	14,515,950.00
4/19/2000	19,455,180.00	14,558,130.00
4/20/2000	19,526,660.00	14,601,270.00
4/21/2000	19,599,260.00	14,644,810.00
4/24/2000	19,818,260.00	14,775,720.00
4/25/2000	19,889,970.00	14,818,000.00
4/26/2000	19,961,760.00	14,861,270.00
4/27/2000	20,034,770.00	14,904,460.00
4/28/2000	20,109,590.00	14,948,740.00
5/1/2000	20,330,690.00	15,079,340.00
5/2/2000	20,404,870.00	15,123,120.00

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
5/3/2000	20,475,640.00	15,164,920.00
5/4/2000	20,548,840.00	15,207,200.00
5/5/2000	20,621,420.00	15,248,910.00
5/8/2000	20,839,740.00	15,375,950.00
5/9/2000	20,912,280.00	15,416,810.00
5/10/2000	20,983,960.00	15,457,710.00
5/11/2000	21,052,130.00	15,498,820.00
5/12/2000	21,122,120.00	15,540,980.00
5/15/2000	21,291,690.00	15,667,290.00
5/16/2000	21,358,000.00	15,709,140.00
5/19/2000	21,560,820.00	15,837,110.00
5/22/2000	21,756,200.00	15,964,000.00
5/23/2000	21,818,260.00	16,002,450.00
5/24/2000	21,882,450.00	16,043,820.00
5/25/2000	21,952,860.00	16,089,320.00
5/26/2000	22,029,610.00	16,139,250.00
5/30/2000	22,272,710.00	16,294,590.00
5/31/2000	22,341,810.00	16,338,610.00
6/1/2000	22,403,810.00	16,378,280.00
6/2/2000	22,470,540.00	16,420,780.00
6/5/2000	22,660,560.00	16,547,320.00
6/6/2000	22,722,870.00	16,589,130.00
6/7/2000	22,787,610.00	16,632,550.00
6/8/2000	22,850,700.00	16,674,650.00
6/9/2000	22,914,370.00	16,717,280.00
6/13/2000	23,113,780.00	16,851,300.00

ORIGINAL

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
6/14/2000	23,177,340.00	16,955,400.00
6/19/2000	23,484,570.00	17,108,280.00
6/20/2000	23,546,720.00	17,151,460.00
6/21/2000	23,609,750.00	17,195,140.00
6/22/2000	23,670,580.00	17,236,290.00
6/23/2000	23,734,870.00	17,278,310.00
6/26/2000	23,929,570.00	17,406,720.00
6/27/2000	23,992,860.00	17,448,540.00
6/28/2000	24,055,850.00	17,489,840.00
6/29/2000	24,127,220.00	17,536,850.00
6/30/2000	24,191,470.00	17,578,830.00
7/5/2000	24,504,740.00	17,783,800.00
7/5/2000	24,504,740.00	17,783,800.00
7/6/2000	24,569,810.00	17,826,200.00
7/7/2000	24,631,180.00	17,865,830.00
7/10/2000	24,824,000.00	17,991,190.00
7/11/2000	24,893,500.00	18,035,870.00
7/12/2000	24,950,840.00	18,072,750.00
7/13/2000	25,015,260.00	18,114,150.00
7/14/2000	25,079,530.00	18,155,390.00
7/17/2000	25,272,980.00	18,277,780.00
7/18/2000	25,335,390.00	18,319,000.00
7/19/2000	0.00	0.00
7/20/2000	25,462,860.00	18,399,480.00
7/21/2000	25,529,440.00	18,441,490.00
7/24/2000	0.00	0.00

ORIGINAL

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
7/25/2000	0.00	0.00
7/26/2000	0.00	0.00
7/27/2000	25,767,540.00	18,593,790.00
7/28/2000	25,834,860.00	18,638,990.00
7/31/2000	26,034,890.00	18,773,560.00
8/1/2000	26,100,830.00	18,817,550.00
8/2/2000	26,170,220.00	18,862,810.00
8/3/2000	26,238,130.00	18,907,230.00
8/4/2000	26,306,920.00	18,952,150.00
8/7/2000	26,515,470.00	19,086,520.00
8/9/2000	26,656,920.00	19,177,820.00
8/10/2000	26,719,300.00	19,218,260.00
8/11/2000	26,784,480.00	19,260,390.00
8/14/2000	26,998,460.00	19,397,920.00
8/16/2000	27,110,510.00	19,470,960.00
8/17/2000	27,177,570.00	19,513,530.00
8/18/2000	27,246,370.00	19,557,910.00
8/19/2000	0.00	0.00
8/28/2000	27,919,990.00	19,992,700.00
8/29/2000	27,984,470.00	20,034,290.00
8/30/2000	28,053,110.00	20,078,650.00
8/31/2000	28,118,770.00	20,120,940.00
9/1/2000	28,185,460.00	20,164,280.00
9/5/2000	28,449,120.00	20,334,670.00
9/6/2000	28,515,670.00	20,376,310.00
9/12/2000	28,920,450.00	20,630,990.00

ORIGINAL

ORIGINAL

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
9/13/2000	28,988,700.00	20,673,650.00
9/14/2000	29,056,480.00	20,716,120.00
9/15/2000	29,140,280.00	20,768,760.00
9/18/2000	29,325,500.00	20,886,000.00
9/19/2000	29,392,190.00	20,928,250.00
9/20/2000	29,458,820.00	20,970,790.00
9/21/2000	29,524,420.00	21,012,760.00
9/22/2000	29,590,360.00	21,055,160.00
9/25/2000	29,788,180.00	21,182,620.00
9/26/2000	29,852,930.00	21,224,610.00
9/27/2000	29,933,120.00	21,276,720.00
9/28/2000	29,983,180.00	21,309,410.00
9/29/2000	30,057,250.00	21,358,130.00
10/2/2000	30,236,800.00	21,477,670.00
10/3/2000	30,298,750.00	21,519,210.00
10/4/2000	30,360,860.00	21,562,210.00
10/5/2000	30,421,520.00	21,602,600.00
10/6/2000	30,482,130.00	21,643,930.00
10/9/2000	30,556,780.00	21,695,410.00
10/10/2000	30,600,540.00	21,726,150.00
10/11/2000	30,664,540.00	21,768,940.00
10/12/2000	30,716,670.00	21,807,460.00
10/13/2000	30,771,680.00	21,848,590.00
10/16/2000	30,935,830.00	21,975,750.00
10/17/2000	30,990,580.00	22,019,480.00
10/18/2000	31,042,530.00	22,061,330.00

ORIGINAL

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
10/19/2000	31,095,270.00	22,103,530.00
10/20/2000	31,152,920.00	22,149,660.00
10/25/2000	31,409,510.00	22,357,370.00
10/26/2000	31,459,860.00	22,399,510.00
10/27/2000	31,510,290.00	22,441,770.00
10/30/2000	31,661,200.00	22,568,480.00
10/31/2000	31,710,950.00	22,610,540.00
11/1/2000	31,759,600.00	22,651,740.00
11/2/2000	31,808,720.00	22,693,580.00
11/3/2000	31,857,480.00	22,734,730.00
11/6/2000	32,004,310.00	22,859,610.00
11/7/2000	32,052,620.00	22,900,860.00
11/8/2000	32,101,340.00	22,942,680.00
11/9/2000	32,149,880.00	22,984,180.00
11/10/2000	32,199,900.00	23,027,970.00
11/13/2000	32,341,740.00	23,148,620.00
11/14/2000	32,392,990.00	23,194,340.00
11/16/2000	32,496,220.00	23,288,630.00
11/17/2000	32,549,110.00	23,336,660.00
11/20/2000	32,706,200.00	23,479,000.00
11/21/2000	32,757,110.00	23,525,850.00
11/22/2000	32,806,980.00	23,571,540.00
11/24/2000	32,911,120.00	23,665,590.00
11/27/2000	33,068,300.00	23,806,400.00
11/28/2000	33,122,260.00	23,854,840.00
11/29/2000	33,172,780.00	23,900,450.00

ORIGINAL

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
11/30/2000	33,223,900.00	23,946,750.00
12/1/2000	33,274,970.00	23,993,450.00
12/4/2000	33,433,630.00	24,137,830.00
12/5/2000	33,478,630.00	24,178,810.00
12/6/2000	0.00	0.00
12/7/2000	33,480,480.00	24,179,920.00
12/8/2000	33,528,720.00	24,226,680.00
12/13/2000	33,774,140.00	24,465,280.00
12/14/2000	33,821,680.00	24,513,570.00
12/15/2000	33,867,410.00	24,560,120.00
12/18/2000	34,006,790.00	24,702,920.00
12/19/2000	34,052,490.00	24,747,110.00
12/20/2000	34,102,500.00	24,795,660.00
12/21/2000	34,152,380.00	24,842,990.00
12/22/2000	34,202,780.00	24,890,540.00
12/26/2000	34,406,430.00	25,081,280.00
12/27/2000	34,456,790.00	25,128,960.00
12/28/2000	34,521,290.00	25,188,790.00
12/29/2000	34,556,220.00	25,221,860.00
1/2/2001	34,753,400.00	25,411,940.00
1/3/2001	0.00	0.00
1/4/2001	0.00	0.00
1/5/2001	3,841,533.00	25,493,430.00
1/8/2001	35,002,770.00	25,638,700.00
1/10/2001	35,053,800.00	25,683,350.00
1/11/2001	35,107,990.00	25,730,700.00

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
1/12/2001	35,161,480.00	25,777,330.00
1/15/2001	35,325,580.00	25,921,470.00
1/16/2001	353,386,300.00	25,975,540.00
1/17/2001	35,433,430.00	26,017,620.00
1/18/2001	35,486,180.00	26,057,350.00
1/19/2001	35,539,120.00	26,104,350.00
1/22/2001	35,700,680.00	26,246,830.00
1/23/2001	35,753,990.00	26,293,300.00
1/24/2001	35,806,820.00	26,340,890.00
1/25/2001	35,860,180.00	26,387,740.00
1/26/2001	35,914,120.00	26,435,480.00
1/29/2001	36,074,780.00	26,577,320.00
1/31/2001	36,188,280.00	26,677,730.00
2/1/2001	36,232,310.00	26,716,880.00
2/2/2001	36,286,640.00	26,764,720.00
2/5/2001	0.00	0.00
2/6/2001	36,445,280.00	26,904,100.00
2/7/2001	36,497,480.00	26,949,620.00
2/12/2001	36,768,170.00	27,186,570.00
2/13/2001	36,830,690.00	27,241,140.00
2/14/2001	60,628,150.00	43,639,600.00
2/15/2001	36,927,290.00	27,325,860.00
2/19/2001	37,138,140.00	27,511,100.00
2/20/2001	37,191,320.00	27,557,870.00
2/21/2001	37,255,220.00	27,605,810.00
2/26/2001	37,615,400.00	27,834,510.00

ORIGINAL

ORIGINAL

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
2/27/2001	37,689,220.00	27,880,640.00
2/28/2001	37,763,920.00	27,927,970.00
3/1/2001	0.00	0.00
3/1/2001	37,839,200.00	27,974,470.00
3/2/2001	37,902,820.00	28,014,770.00
3/5/2001	38,130,430.00	28,154,350.00
3/6/2001	38,208,210.00	28,201,620.00
3/7/2001	38,271,370.00	28,246,850.00
3/9/2001	38,370,620.00	28,339,950.00
3/12/2001	38,852,039.00	28,478,850.00
3/14/2001	38,615,980.00	28,568,180.00
3/16/2001	38,711,460.00	28,659,920.00
3/19/2001	38,855,400.00	28,797,490.00
3/20/2001	38,905,340.00	28,845,170.00
3/21/2001	38,951,920.00	28,889,720.00
3/22/2001	38,999,800.00	28,935,410.00
3/23/2001	0.00	0.00
3/26/2001	0.00	0.00
3/27/2001	39,114,340.00	29,041,630.00
3/28/2001	39,182,580.00	29,089,480.00
3/30/2001	39,327,620.00	29,184,570.00
4/2/2001	39,538,230.00	29,324,410.00
4/3/2001	39,611,980.00	29,374,370.00
4/4/2001	39,683,120.00	29,422,380.00
4/5/2001	39,754,370.00	29,470,450.00
4/6/2001	39,824,150.00	29,517,680.00

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER	ORIGINAL
4/9/2001	40,038,980.00	29,662,970.00	
4/10/2001	40,106,140.00	29,707,570.00	
4/11/2001	40,180,330.00	29,756,920.00	
4/12/2001	40,251,960.00	29,804,570.00	
4/13/2001	40,324,360.00	29,852,310.00	
4/16/2001	40,545,870.00	29,997,900.00	
4/17/2001	40,619,310.00	30,045,970.00	
4/19/2001	40,768,690.00	30,132,430.00	
4/20/2001	40,845,320.00	30,181,960.00	
4/23/2001	41,069,500.00	30,324,710.00	
4/24/2001	41,141,790.00	30,371,480.00	
4/25/2001	41,226,340.00	30,425,620.00	
4/26/2001	41,293,360.00	30,468,440.00	
4/27/2001	41,366,340.00	30,515,260.00	
4/30/2001	41,587,870.00	30,658,720.00	
5/1/2001	41,661,480.00	30,706,280.00	
5/3/2001	41,812,430.00	30,800,910.00	
5/4/2001	41,889,860.00	30,848,210.00	
5/7/2001	42,124,180.00	30,991,420.00	
5/8/2001	42,207,890.00	31,042,770.00	
5/9/2001	42,278,630.00	31,085,820.00	
5/11/2001	42,451,940.00	31,191,550.00	
5/14/2001	42,667,310.00	31,324,310.00	
5/15/2001	42,744,730.00	31,371,430.00	
5/16/2001	42,825,570.00	31,421,240.00	
5/17/2001	42,896,490.00	31,465,280.00	

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER	
5/18/2001	42,973.00	31,512,450.00	
5/21/2001	43,200,350.00	31,653,460.00	
5/23/2001	43,350,570.00	31,747,150.00	
5/24/2001	43,424,180.00	31,792,910.00	ORIGINAL
5/25/2001	43,499,000.00	31,839,190.00	
5/29/2001	43,796,540.00	32,025,780.00	
6/1/2001	44,013,340.00	32,160,640.00	
6/4/2001	44,260,840.00	32,315,300.00	
6/5/2001	0.00	0.00	
6/6/2001	44,392,490.00	32,397,520.00	
6/8/2001	44,538,120.00	32,488,870.00	
6/11/2001	0.00	0.00	
6/12/2001	44,835,780.00	32,674,550.00	
6/14/2001	44,983,820.00	32,766,640.00	
6/15/2001	45,056,770.00	32,812,190.00	
6/26/2001	45,355,960.00	32,994,250.00	
6/27/2001	45,437,540.00	33,040,350.00	
6/28/2001	45,521,300.00	33,087,340.00	
7/2/2001	45,863,940.00	33,282,680.00	
7/3/2001	45,954,910.00	33,335,370.00	
7/6/2001	46,195,970.00	33,476,970.00	
7/11/2001	46,441,510.00	33,615,360.00	
7/12/2001	46,522,330.00	33,660,730.00	
7/13/2001	46,606,550.00	33,707,950.00	
7/16/2001	46,857,300.00	33,849,140.00	
7/17/2001	46,952,970.00	33,902,670.00	

ORIGINAL

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
7/20/2001	47,203,520.00	34,046,240.00
7/23/2001	47,436,580.00	34,181,910.00
7/31/2001	47,937,130.00	34,325,320.00
8/1/2001	48,004,120.00	34,369,150.00
8/2/2001	48,081,710.00	34,420,410.00
8/3/2001	48,164,140.00	34,475,180.00
8/6/2001	48,373,440.00	34,614,710.00
8/7/2001	48,445,140.00	34,662,750.00
8/9/2001	48,584,910.00	34,757,460.00
8/10/2001	48,654,880.00	34,805,360.00
8/13/2001	48,864,970.00	34,948,920.00
8/14/2001	48,925,460.00	34,991,360.00
8/15/2001	35,038,180.00	48,993,210.00
8/16/2001	49,077,640.00	35,097,470.00
8/17/2001	49,127,180.00	35,132,780.00
8/20/2001	49,308,340.00	35,273,910.00
8/21/2001	49,366,320.00	35,320,780.00
8/22/2001	49,423,530.00	35,367,990.00
8/23/2001	49,480,180.00	35,414,760.00
8/24/2001	49,538,440.00	35,464,980.00
8/25/2001	49,589,880.00	35,507,850.00
8/27/2001	49,702,900.00	35,606,440.00
8/28/2001	49,754,330.00	35,651,840.00
8/29/2001	49,800,780.00	35,691,860.00
8/30/2001	49,858,820.00	35,742,220.00
8/31/2001	49,903,060.00	35,781,070.00

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER	
9/1/2001	49,953,870.00	35,826,940.00	
9/4/2001	50,104,760.00	35,962,950.00	
9/6/2001	50,215,770.00	36,062,680.00	
9/11/2001	50,452,220.00	36,285,290.00	ORIGINAL
9/12/2001	50,489,240.00	36,319,880.00	
9/13/2001	50,536,540.00	36,364,830.00	
9/14/2001	50,579,980.00	36,408,460.00	
9/17/2001	50,708,120.00	36,549,160.00	
9/18/2001	50,750,880.00	36,595,960.00	
9/19/2001	50,796,450.00	36,644,730.00	
9/20/2001	50,833,160.00	36,685,420.00	
9/21/2001	50,873,270.00	36,730,960.00	
9/27/2001	51,101,840.00	37,005,660.00	
9/28/2001	51,131,200.00	37,044,610.00	
10/1/2001	51,231,890.00	37,178,330.00	
10/3/2001	51,282,790.00	37,257,600.00	
10/4/2001	51,311,240.00	37,303,460.00	
10/5/2001	51,340,620.00	37,323,950.00	
10/8/2001	51,420,130.00	37,364,970.00	
10/15/2001	0.00	0.00	
10/16/2001	51,475,110.00	37,421,320.00	
10/17/2001	51,539,360.00	37,484,420.00	
10/18/2001	51,595,710.00	37,537,320.00	
10/19/2001	51,658,140.00	37,601,760.00	
10/22/2001	51,847,980.00	37,797,160.00	
10/23/2001	51,914,560.00	37,865,210.00	

ORIGINAL

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
10/24/2001	51,974,850.00	37,927,650.00
10/25/2001	52,025,920.00	37,980,700.00
10/26/2001	52,088,220.00	38,044,460.00
10/29/2001	52,285,660.00	38,244,190.00
10/30/2001	52,345,870.00	38,303,150.00
10/31/2001	52,405,300.00	38,363,550.00
11/1/2001	52,466,530.00	38,425,140.00
11/2/2001	52,528,720.00	38,487,960.00
11/5/2001	52,716,510.00	38,671,180.00
11/6/2001	52,769,700.00	38,722,610.00
11/12/2001	53,148,660.00	39,098,860.00
11/13/2001	53,221,630.00	39,161,980.00
11/14/2001	53,294,110.00	39,220,310.00
11/15/2001	53,370,980.00	39,281,530.00
11/16/2001	53,451,580.00	39,346,880.00
11/19/2001	53,678,560.00	39,523,140.00
11/20/2001	53,763,540.00	39,587,620.00
11/21/2001	53,839,480.00	39,645,680.00
11/23/2001	53,997,180.00	39,769,540.00
11/26/2001	54,227,540.00	39,948,770.00
11/27/2001	54,311,220.00	40,012,230.00
11/28/2001	54,389,620.00	40,070,870.00
11/29/2001	54,463,470.00	40,120,980.00
11/30/2001	54,537,820.00	40,169,240.00
12/3/2001	54,757,460.00	40,309,140.00
12/4/2001	54,832,270.00	40,355,690.00

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER	ORIGINAL
12/6/2001	54,947,950.00	40,426,420.00	
12/7/2001	55,028,150.00	40,475,150.00	
12/10/2001	55,028,150.00	40,475,150.00	
12/11/2001	55,347,110.00	40,662,790.00	
12/17/2001	55,840,160.00	40,948,810.00	
12/18/2001	55,916,900.00	40,993,440.00	
12/19/2001	55,997,990.00	41,040,440.00	
12/20/2001	56,081,960.00	41,088,940.00	
12/21/2001	56,170,900.00	41,141,340.00	
12/26/2001	56,579,490.00	41,378,180.00	
12/28/2001	56,739,000.00	41,470,160.00	
12/31/2001	56,985,550.00	41,612,690.00	
1/2/2002	57,149,960.00	41,706,850.00	
1/3/2002	57,226,520.00	41,751,620.00	
1/4/2002	57,309,110.00	41,799,610.00	
1/7/2002	0.00	0.00	
1/8/2002	57,631,540.00	41,986,920.00	
1/9/2002	57,710,360.00	42,031,550.00	
1/10/2002	57,791,280.00	42,078,320.00	
1/11/2002	0.00	0.00	
1/13/2002	85,681,500.00	55,364,420.00	
1/14/2002	58,113,530.00	42,259,260.00	
1/15/2002	58,199,440.00	42,307,550.00	
1/16/2002	58,283,650.00	42,355,140.00	
1/17/2002	58,360,140.00	42,398,300.00	
1/18/2002	0.00	0.00	

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
1/21/2002	0.00	0.00
1/22/2002	0.00	0.00
1/23/2002	58,764,320.00	42,625,870.00
1/24/2002	0.00	0.00
1/25/2002	0.00	0.00
1/30/2002	59,377,740.00	42,960,330.00
1/31/2002	59,461,540.00	43,005,110.00
2/1/2002	59,543,830.00	43,049,000.00
2/2/2002	0.00	0.00
2/4/2002	59,755,880.00	43,164,390.00
2/5/2002	59,842,670.00	43,211,720.00
2/6/2002	59,936,600.00	43,254,290.00
2/7/2002	60,020,200.00	43,300,890.00
2/11/2002	60,363,120.00	43,491,980.00
2/12/2002	60,452,130.00	43,541,500.00
2/13/2002	60,533,350.00	43,586,720.00
2/15/2002	60,709,770.00	43,685,130.00
2/18/2002	60,970,410.00	43,830,350.00
2/19/2002	61,052,570.00	43,874,870.00
2/20/2002	61,140,500.00	43,922,380.00
2/21/2002	61,225,920.00	43,968,660.00
2/22/2002	61,311,840.00	44,015,290.00
2/25/2002	61,580,180.00	44,160,140.00
2/26/2002	61,669,960.00	44,208,120.00
2/27/2002	61,750,120.00	44,252,140.00
2/28/2002	61,837,940.00	44,299,200.00

ORIGINAL

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
3/1/2002	0.00	0.00
3/4/2002	62,135,840.00	44,420,990.00
3/5/2002	62,225,390.00	44,471,260.00
3/6/2002	62,305,250.00	44,515,710.00
3/7/2002	62,396,740.00	44,567,120.00
3/8/2002	62,480,950.00	44,614,180.00
3/11/2002	62,714,160.00	44,745,660.00
3/12/2002	62,814,370.00	44,802,290.00
3/14/2002	62,983,520.00	44,897,710.00
3/15/2002	63,071,170.00	44,946,430.00
3/18/2002	63,323,960.00	45,086,400.00
3/19/2002	63,409,000.00	45,134,780.00
3/20/2002	63,475,740.00	45,172,530.00
3/21/2002	63,559,560.00	45,220,140.00
3/22/2002	63,657,280.00	45,275,240.00
3/25/2002	63,898,790.00	45,412,320.00
3/26/2002	63,982,870.00	45,460,220.00
3/27/2002	64,062,110.00	45,505,410.00
3/28/2002	64,137,640.00	45,548,690.00
3/29/2002	64,209,610.00	45,589,740.00
4/3/2002	64,630,780.00	45,832,660.00
4/4/2002	64,714,150.00	45,881,130.00
4/5/2002	64,794,840.00	45,928,140.00
4/8/2002	65,028,460.00	46,063,560.00
4/9/2002	65,101,320.00	46,106,960.00
4/10/2002	65,186,240.00	46,155,130.00

ORIGINAL

ORIGINAL

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
4/11/2002	65,264,990.00	46,201,130.00
4/12/2002	65,348,140.00	46,249,580.00
4/15/2002	65,586,760.00	46,341,150.00
4/16/2002	65,669,560.00	46,341.00
4/17/2002	65,742,460.00	46,341.00
4/18/2002	65,823,440.00	46,341.00
4/19/2002	65,909,360.00	46,341.00
4/22/2002	66,234,560.00	46,341.00
4/24/2002	66,313,920.00	0.00
4/25/2002	66,396,120.00	0.00
4/26/2002	0.00	0.00
4/29/2002	66,683,380.00	0.00
4/30/2002	66,767,120.00	46,341.00
5/1/2002	66,840,480.00	0.00
5/2/2002	66,923,400.00	0.00
5/3/2002	67,003,310.00	0.00
5/6/2002	67,229,740.00	0.00
5/8/2002	67,385,990.00	0.00
5/9/2002	67,467,710.00	0.00
5/10/2002	67,553,250.00	0.00
5/11/2002	67,621,540.00	0.00
5/13/2002	67,810,140.00	0.00
5/14/2002	67,904,780.00	0.00
5/15/2002	67,986,130.00	0.00
5/16/2002	68,077,980.00	0.00
5/17/2002	68,158,780.00	0.00

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER	ORIGINAL
5/18/2002	68,226,340.00	0.00	
5/20/2002	68,417,580.00	0.00	
5/21/2002	68,496,780.00	0.00	
5/22/2002	68,576,320.00	0.00	
5/23/2002	68,672,380.00	0.00	
5/24/2002	68,750,580.00	0.00	
5/28/2002	690,876,700.00	0.00	
5/29/2002	69,146,270.00	0.00	
5/30/2002	69,228,820.00	0.00	
5/31/2002	69,304,770.00	0.00	
6/3/2002	69,540,830.00	0.00	
6/5/2002	69,697,260.00	0.00	
6/6/2002	69,772,440.00	0.00	
6/7/2002	69,851,160.00	0.00	
6/10/2002	70,080,980.00	0.00	
6/11/2002	70,154,210.00	0.00	
6/12/2002	70,228,340.00	0.00	
6/13/2002	70,302,310.00	0.00	
6/14/2002	70,378,710.00	0.00	
6/17/2002	70,599,630.00	0.00	
6/18/2002	70,671,180.00	46,388,350.00	
6/19/2002	70,740,360.00	46,435,800.00	
6/20/2002	70,822,620.00	46,492,590.00	
6/21/2002	70,888,630.00	46,538,680.00	
6/24/2002	71,107,390.00	46,691,780.00	
6/25/2002	71,179,730.00	46,742,600.00	

ORIGINAL

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
6/26/2002	71,242,880.00	46,786,660.00
6/27/2002	71,316,670.00	46,837,510.00
6/28/2002	71,391,620.00	46,889,280.00
7/1/2002	71,580,510.00	47,020,970.00
7/2/2002	71,643,380.00	47,063,900.00
7/3/2002	71,712,590.00	47,112,320.00
7/5/2002	71,847,920.00	47,207,620.00
7/6/2002	71,918,670.00	47,255,080.00
7/8/2002	72,059,530.00	47,349,840.00
7/11/2002	72,206,550.00	47,453,770.00
7/12/2002	72,268,650.00	47,498,370.00
7/15/2002	72,465,190.00	47,640,940.00
7/16/2002	72,520,210.00	47,681,890.00
7/17/2002	72,590,180.00	47,728,620.00
7/18/2002	72,645,320.00	47,770,120.00
7/19/2002	72,711,180.00	47,820,940.00
7/22/2002	72,891,740.00	47,961,820.00
7/23/2002	72,951,140.00	48,009,720.00
7/25/2002	73,044,920.00	48,088,430.00
7/26/2002	73,100,130.00	48,136,660.00
7/29/2002	73,259,660.00	48,278,430.00
7/30/2002	73,327,870.00	48,338,930.00
8/1/2002	73,420,180.00	48,419,900.00
8/2/2002	73,473,110.00	48,466,320.00
8/3/2002	73,521,340.00	48,491,480.00
8/5/2002	73,624,180.00	48,581,350.00

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
8/6/2002	73,677,260.00	48,628,200.00
8/7/2002	73,728,710.00	48,642,770.00
8/8/2002	73,781,940.00	48,688,560.00
8/9/2002	73,848,560.00	48,694,440.00
8/10/2002	73,887,860.00	48,729,130.00
8/12/2002	73,990,340.00	48,818,670.00
8/13/2002	74,043,970.00	48,864,770.00
8/14/2002	74,094,340.00	48,910,160.00
8/15/2002	74,145,980.00	48,955,230.00
8/16/2002	74,196,810.00	49,001,440.00
8/17/2002	74,249,550.00	49,048,570.00
8/19/2002	74,350,900.00	49,141,200.00
8/20/2002	74,403,180.00	49,189,140.00
8/21/2002	74,453,660.00	49,235,900.00
8/22/2002	74,506,170.00	49,284,660.00
8/23/2002	74,572,310.00	49,346,470.00
8/26/2002	74,710,940.00	49,474,220.00
8/27/2002	74,760,980.00	49,521,260.00
8/28/2002	74,810,820.00	49,568,730.00
8/29/2002	74,861,810.00	49,615,930.00
8/30/2002	74,912,950.00	49,662,480.00
8/31/2002	74,961,670.00	49,710,440.00
9/3/2002	75,109,530.00	49,848,410.00
9/4/2002	75,158,380.00	49,894,970.00
9/5/2002	75,209,580.00	49,941,810.00
9/7/2002	75,415,730.00	50,030,240.00

ORIGINAL

ORIGINAL

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
9/9/2002	75,645,830.00	50,118,980.00
9/10/2002	75,760,420.00	50,164,480.00
9/12/2002	759,741,100.00	50,251,560.00
9/13/2002	76,080,540.00	50,293,990.00
9/14/2002	76,185,870.00	50,335,410.00
9/24/2002	76,628,550.00	50,511,180.00
9/25/2002	76,731,920.00	50,554,380.00
9/26/2002	76,843,630.00	50,600,950.00
9/27/2002	76,945,420.00	50,643,520.00
9/30/2002	77,264,140.00	50,776,780.00
10/1/2002	77,401,380.00	50,834,240.00
10/2/2002	77,510,890.00	50,880,130.00
10/3/2002	77,580,820.00	50,909,510.00
10/4/2002	77,687,270.00	50,954,000.00
10/7/2002	78,006,670.00	51,087,140.00
10/8/2002	78,111,540.00	51,130,780.00
10/9/2002	78,218,670.00	51,175,950.00
10/10/2002	78,302,780.00	51,215,360.00
10/11/2002	78,376,780.00	51,260,970.00
10/14/2002	78,601,160.00	51,395,810.00
10/15/2002	78,677,340.00	51,441,810.00
10/16/2002	78,778,660.00	51,485,430.00
10/17/2002	78,885,150.00	51,529,640.00
10/18/2002	78,991,510.00	51,573,770.00
10/21/2002	79,344,950.00	51,720,140.00
10/23/2002	79,483,220.00	51,798,380.00

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
10/24/2002	79,560,780.00	51,842,990.00
10/25/2002	79,666,740.00	51,902,980.00
10/26/2002	79,721,750.00	51,933,150.00
10/28/2002	79,887,990.00	52,026,660.00
10/29/2002	79,967,440.00	52,072,360.00
10/30/2002	80,047,340.00	52,117,780.00
10/31/2002	80,127,270.00	52,163,170.00
11/1/2002	80,206,270.00	52,208,400.00
11/4/2002	80,443,280.00	52,343,620.00
11/6/2002	80,621,660.00	52,445,490.00
11/11/2002	80,991,660.00	52,657,780.00
11/12/2002	81,071,940.00	52,703,860.00
11/13/2002	81,147,740.00	52,748,590.00
11/14/2002	81,226,620.00	52,794,440.00
11/15/2002	81,327,930.00	52,853,660.00
11/18/2002	81,559,000.00	52,989,480.00
11/19/2002	81,613,460.00	53,021,690.00
11/22/2002	81,853,660.00	53,171,980.00
11/25/2002	82,072,740.00	53,294,580.00
11/26/2002	82,154,310.00	53,340,890.00
11/27/2002	82,233,520.00	53,385,830.00
11/29/2002	82,415,710.00	53,489,500.00
12/2/2002	82,634,660.00	53,612,590.00
12/3/2002	82,721,830.00	53,661,780.00
12/4/2002	82,816,270.00	53,714,990.00
12/6/2002	82,961,110.00	53,796,790.00

ORIGINAL

ORIGINAL

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
12/10/2002	83,285,120.00	53,979,180.00
12/11/2002	83,359,220.00	54,021,440.00
12/12/2002	83,458,900.00	54,078,630.00
12/16/2002	83,770,740.00	54,257,380.00
12/17/2002	83,841,740.00	54,297,860.00
12/18/2002	83,944,580.00	54,356,440.00
12/20/2002	84,099,110.00	54,445,880.00
12/23/2002	84,324,340.00	54,578,270.00
12/27/2002	84,648,380.00	54,764,920.00
12/30/2002	84,880,980.00	54,900,760.00
12/31/2002	84,957,510.00	54,945,730.00
1/2/2003	85,121,580.00	55,042,130.00
1/13/2003	85,681,500.00	55,364,420.00
1/14/2003	0.00	0.00
1/16/2003	85,929,990.00	55,501,460.00
1/17/2003	85,988,360.00	55,535,580.00
1/20/2003	86,254,560.00	55,690,350.00
1/21/2003	86,332,390.00	55,735,420.00
1/22/2003	86,412,340.00	55,781,700.00
1/23/2003	86,495,900.00	55,828,340.00
1/24/2003	86,574,650.00	55,872,670.00
1/27/2003	86,795,420.00	55,998,340.00
1/28/2003	86,887,940.00	56,050,880.00
1/29/2003	86,971,190.00	56,098,380.00
1/30/2003	87,047,540.00	56,141,710.00
2/3/2003	87,351,580.00	56,314,720.00

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER	ORIGINAL
2/4/2003	87,425,330.00	56,356,710.00	
2/5/2003	87,524,460.00	56,413,140.00	
2/6/2003	87,596,740.00	56,454,240.00	
2/10/2003	87,902,180.00	56,628,120.00	
2/11/2003	87,960,340.00	56,639,400.00	
2/12/2003	88,055,870.00	56,693,690.00	
2/13/2003	88,129,240.00	56,735,380.00	
2/18/2003	88,517,760.00	56,954,470.00	
2/19/2003	88,607,980.00	57,005,260.00	
2/24/2003	88,988,910.00	57,219,580.00	
3/3/2003	89,820,700.00	57,439,140.00	
3/4/2003	89,352,250.00	57,484,120.00	
3/5/2003	89,418,470.00	57,525,510.00	
3/6/2003	89,475,660.00	57,560,880.00	
3/7/2003	89,569,140.00	57,617,850.00	
3/10/2003	89,787,420.00	57,752,680.00	
3/11/2003	89,844,880.00	57,787,980.00	
3/12/2003	89,932,990.00	57,842,290.00	
3/13/2003	89,985,120.00	57,874,500.00	
3/14/2003	90,073,910.00	57,929,180.00	
3/15/2003	90,135,660.00	57,967,160.00	
3/17/2003	90,296,870.00	58,065,830.00	
3/18/2003	90,352,690.00	58,100,150.00	
3/19/2003	90,443,590.00	58,155,590.00	
3/20/2003	90,519,510.00	58,201,800.00	
3/21/2003	90,586,260.00	58,242,140.00	

ORIGINAL

DATE	DM2/9 TOTALIZER	DM11 TOTALIZER
3/24/2003	90,815,810.00	58,381,740.00
3/25/2003	90,868,780.00	58,414,560.00
3/26/2003	90,951,760.00	58,464,730.00
3/27/2003	90,951,760.00	58,503,190.00
3/28/2003	90,990,480.00	58,548,440.00
3/29/2003	91,057,580.00	58,597,740.00
3/31/2003	91,193,960.00	58,698,110.00
4/1/2003	91,242,500.00	58,735,380.00
4/2/2003	91,303,110.00	58,780,940.00
4/3/2003	91,365,340.00	58,827,850.00
4/5/2003	91,492,220.00	58,924,190.00
4/7/2003	91,614,870.00	59,019,540.00
4/8/2003	91,676,160.00	59,068,430.00
4/9/2003	91,721,450.00	59,104,920.00
4/16/2003	92,090,580.00	59,435,500.00
4/21/2003	92,257,300.00	59,676,440.00
4/22/2003	92,271,740.00	59,715,280.00
4/23/2003	92,292,420.00	59,774,760.00
4/24/2003	92,304,700.00	59,809,480.00
4/25/2003	92,321,280.00	59,857,590.00
4/29/2003	0.00	60,008,510.00
4/30/2003	0.00	60,096,360.00
5/1/2003	0.00	60,149,900.00

ORIGINAL

ORIGINAL

APPENDIX D

LABORATORY RESULTS INFLUENT AND EFFLUENT SAMPLES FROM THE GROUNDWATER TREATMENT SYSTEM

APPENDIX D
LABORATORY RESULTS
GROUNDWATER TREATMENT SYSTEM EFFLUENT SAMPLES
CHRIN BROTHERS SANITARY LANDFILL
ORIGINAL

PARAMETER	UNIT	NPDES LIMIT (Instantaneous Maximum)	04/22/99	04/30/99	05/27/99	05/28/99	06/07/99	06/21/99
Hexavalent Chromium	mg/L	0.03	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	mg/L	0.0025	0.0011	< 0.0002	0.0009	0.001	0.0007	< 0.0002
Manganese	mg/L	5.00	0.02	< 0.01	0.13	0.06	0.02	2.05
Lead	mg/L	0.20	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isophorone	ug/L	2.5	< 10	< 10	< 10	< 10	< 10	< 10
bis(2-Ethylhexyl)phthalate	ug/L	--	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Tetrachloride	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/L	See Note 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	ug/L	See Note 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	ug/L	2.5						
o-Xylene	ug/L	See Note 1						
m,p-Xylene	ug/L	See Note 1						
Iron	mg/L	--					< 0.05	< 0.05
Iron, dissolved	mg/L	--					< 0.05	< 0.05
Total dissolved solids	mg/L	--					811	642

Notes:

1. Instantaneous maximum for Total BTEX is 250 ug/L and is measured as the sum of benzene, ethylbenzene, toluene, and xylenes.

APPENDIX D
LABORATORY RESULTS
GROUNDWATER TREATMENT SYSTEM EFFLUENT SAMPLES
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

PARAMETER	UNIT	NPDES LIMIT (Instantaneous Maximum)	07/07/99	07/21/99	08/11/99	08/30/99	09/13/99	09/27/99
Hexavalent Chromium	mg/L	0.03	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	mg/L	0.0025	0.0003	0.0003	< 0.0002	0.0004	< 0.0002	0.0003
Manganese	mg/L	5.00	1.03	1.59	1.98	1.75	1.84	1.69
Lead	mg/L	0.20	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isophorone	ug/L	2.5	< 10	< 10	< 10	< 10	< 10	< 10
bis(2-Ethylhexyl)phthalate	ug/L	--	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Tetrachloride	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/L	See Note 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	ug/L	See Note 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	ug/L	2.5						
o-Xylene	ug/L	See Note 1						
m,p-Xylene	ug/L	See Note 1						
Iron	mg/L	--					0.04	< 0.03
Iron, dissolved	mg/L	--					0.07	< 0.03
Total dissolved solids	mg/L	--					584	630

Notes:

1. Instantaneous maximum for Total BTEX is 250 ug/L and is measured as the sum of benzene, ethylbenzene, toluene, and xylenes.

APPENDIX D
LABORATORY RESULTS
GROUNDWATER TREATMENT SYSTEM EFFLUENT SAMPLES
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

PARAMETER	UNIT	NPDES LIMIT (Instantaneous Maximum)	10/12/99	10/26/99	11/10/99	11/29/99	12/13/99	12/27/99
Hexavalent Chromium	mg/L	0.03	< 0.01	< 0.01	< 0.01	< 0.01	0.01	< 0.01
Mercury	mg/L	0.0025	0.0003	0.0004	0.0004	0.0004	0.0004	0.0003
Manganese	mg/L	5.00	1.64	1.6	1.47	1.79	0.67	1.74
Lead	mg/L	0.20	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isophorone	ug/L	2.5	< 10	< 10	< 10	< 10	< 10	< 10
bis(2-Ethylhexyl)phthalate	ug/L	--	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Tetrachloride	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/L	See Note 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	ug/L	See Note 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	ug/L	2.5	< 1	< 1	< 1	< 1		< 1
Chloroform	ug/L	2.5						
o-Xylene	ug/L	See Note 1						
m,p-Xylene	ug/L	See Note 1						
Iron	mg/L	--					0.07	0.05
Iron, dissolved	mg/L	--					0.06	0.06
Total dissolved solids	mg/L	--					618	607

Notes:

1. Instantaneous maximum for Total BTEX is 250 ug/L and is measured as the sum of benzene, ethylbenzene, toluene, and xylenes.

APPENDIX D
LABORATORY RESULTS
GROUNDWATER TREATMENT SYSTEM EFFLUENT SAMPLES
CHRIN BROTHERS SANITARY LANDFILL
ORIGINAL

PARAMETER	UNIT	NPDES LIMIT (Instantaneous Maximum)	01/10/00	01/24/00	02/09/00	02/22/00	03/09/00	03/21/00
Hexavalent Chromium	mg/L	0.03	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	mg/L	0.0025	0.0002	< 0.0002	0.0002	0.0003	< 0.0002	0.0003
Manganese	mg/L	5.00	1.55	1.3	1.41	0.97	1.62	0.48
Lead	mg/L	0.20	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isophorone	ug/L	2.5	< 10	< 10	ND	ND	ND	< 10
bis(2-Ethylhexyl)phthalate	ug/L	--	< 10	< 10	ND	ND	ND	< 10
Benzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 5
Carbon Tetrachloride	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 5
Chlorobenzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 5
1,4-Dichlorobenzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 5
1,1-Dichloroethane	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 5
1,1-Dichloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 5
1,2-Dichloropropane	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 5
Ethylbenzene	ug/L	See Note 1	< 1	< 1	< 1	< 1	< 1	< 5
Methylene Chloride	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 5
Tetrachloroethene	ug/L	2.5	2	< 1	< 1	< 1	< 1	< 5
Toluene	ug/L	See Note 1	< 1	< 1	< 1	< 1	< 1	< 5
Trichloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 5
Vinyl Chloride	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 2
Chloroform	ug/L	2.5						< 5
o-Xylene	ug/L	See Note 1						
m,p-Xylene	ug/L	See Note 1						
Iron	mg/L	--					< 0.03	0.04
Iron, dissolved	mg/L	--					< 0.03	< 0.03
Total dissolved solids	mg/L	--					633	611

Notes:

1. Instantaneous maximum for Total BTEX is 250 ug/L and is measured as the sum of benzene, ethylbenzene, toluene, and xylenes.

APPENDIX D
LABORATORY RESULTS
GROUNDWATER TREATMENT SYSTEM EFFLUENT SAMPLES
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

PARAMETER	UNIT	NPDES LIMIT (Instantaneous Maximum)	04/03/00	04/17/00	05/04/00	05/24/00	06/05/00	06/19/00
Hexavalent Chromium	mg/L	0.03	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	mg/L	0.0025	0.0004	0.0003	0.0009	0.0002	0.0004	< 0.0002
Manganese	mg/L	5.00	1.36	1.02	1.19	1.3	0.48	1.24
Lead	mg/L	0.20	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isophorone	ug/L	2.5	< 10	ND	ND	< 10	ND	ND
bis(2-Ethylhexyl)phthalate	ug/L	--	< 10	ND	ND	< 10	ND	ND
Benzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Tetrachloride	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/L	See Note 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/L	2.5	< 1	< 2	< 2	< 1	< 1	< 1
Tetrachloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	ug/L	See Note 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
o-Xylene	ug/L	See Note 1		< 2	< 2	< 1	< 1	< 1
m,p-Xylene	ug/L	See Note 1		< 2	< 2	< 1	< 1	< 1
Iron	mg/L	--					< 0.03	< 0.03
Iron, dissolved	mg/L	--					< 0.03	< 0.03
Total dissolved solids	mg/L	--					613	591

Notes:

1. Instantaneous maximum for Total BTEX is 250 ug/L and is measured as the sum of benzene, ethylbenzene, toluene, and xylenes.

APPENDIX D
LABORATORY RESULTS
GROUNDWATER TREATMENT SYSTEM EFFLUENT SAMPLES
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

PARAMETER	UNIT	NPDES LIMIT (Instantaneous Maximum)	07/12/00	07/24/00	08/16/00	08/28/00	09/13/00	09/27/00
Hexavalent Chromium	mg/L	0.03	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	mg/L	0.0025	0.0004	0.0002	0.0011	0.0011	0.0005	0.0002
Manganese	mg/L	5.00	1.48	1.57	1.48	1.53	1.71	1.61
Lead	mg/L	0.20	< 0.005	< 0.005	< 0.005	< 0.005	0.007	< 0.005
Isophorone	ug/L	2.5	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	ug/L	--	ND	ND	ND	ND	ND	ND
Benzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Tetrachloride	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/L	See Note 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/L	2.5	< 2	< 2	< 2	< 2	< 2	< 2
Tetrachloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	ug/L	See Note 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
o-Xylene	ug/L	See Note 1	< 2	< 2	< 2	< 2	< 2	< 2
m,p-Xylene	ug/L	See Note 1	< 2	< 2	< 2	< 2	< 2	< 2
Iron	mg/L	--					0.04	< 0.03
Iron, dissolved	mg/L	--					< 0.03	< 0.03
Total dissolved solids	mg/L	--					616	639

Notes:

1. Instantaneous maximum for Total BTEX is 250 ug/L and is measured as the sum of benzene, ethylbenzene, toluene, and xylenes.

APPENDIX D
LABORATORY RESULTS
GROUNDWATER TREATMENT SYSTEM EFFLUENT SAMPLES
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

PARAMETER	UNIT	NPDES LIMIT (Instantaneous Maximum)	10/10/00	10/25/00	11/07/00	11/20/00	12/04/00	12/20/00
Hexavalent Chromium	mg/L	0.03	< 0.01	< 0.01	< 0.01	0.01		< 0.01
Mercury	mg/L	0.0025	0.0005	0.0002	0.0003	< 0.0002	< 0.0002	0.0003
Manganese	mg/L	5.00	1.58	1.5	1.5	1.32	1.23	1.31
Lead	mg/L	0.20	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isophorone	ug/L	2.5	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	ug/L	--	ND	ND	ND	ND	ND	ND
Benzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Tetrachloride	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/L	See Note 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/L	2.5	< 2	< 2	< 2	< 2	< 2	< 2
Tetrachloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	ug/L	See Note 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
o-Xylene	ug/L	See Note 1	< 2	< 2	< 2	< 2	< 2	< 2
m,p-Xylene	ug/L	See Note 1	< 2	< 2	< 2	< 2	< 2	< 2
Iron	mg/L	--					0.03	< 0.03
Iron, dissolved	mg/L	--					0.12	< 0.03
Total dissolved solids	mg/L	--					588	580

Notes:

1. Instantaneous maximum for Total BTEX is 250 ug/L and is measured as the sum of benzene, ethylbenzene, toluene, and xylenes.

APPENDIX D
LABORATORY RESULTS
GROUNDWATER TREATMENT SYSTEM EFFLUENT SAMPLES
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

PARAMETER	UNIT	NPDES LIMIT (Instantaneous Maximum)	12/28/00	10/01/02	10/14/02	11/06/02	11/19/02	11/25/02
Hexavalent Chromium	mg/L	0.03	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01
Mercury	mg/L	0.0025		< 0.0002	< 0.0002	< 0.0002	< 0.0002	
Manganese	mg/L	5.00		1.28	1.17	0.98	0.9	
Lead	mg/L	0.20		< 0.005	< 0.005	< 0.005	< 0.005	
Isophorone	ug/L	2.5		< 10	< 10	< 10	< 10	
bis(2-Ethylhexyl)phthalate	ug/L	--		< 10	< 10	< 10	< 10	
Benzene	ug/L	2.5		< 1	< 1	< 1	< 1	
Carbon Tetrachloride	ug/L	2.5		< 1	< 1	< 1	< 1	
Chlorobenzene	ug/L	2.5		< 1	< 1	< 1	< 1	
1,4-Dichlorobenzene	ug/L	2.5		< 1	< 1	< 1	< 1	
1,1-Dichloroethane	ug/L	2.5		< 1	< 1	< 1	< 1	
1,1-Dichloroethene	ug/L	2.5		< 1	< 1	< 1	< 1	
1,2-Dichloropropane	ug/L	2.5		< 1	< 1	< 1	< 1	
Ethylbenzene	ug/L	See Note 1		< 1	< 1	< 1	< 1	
Methylene Chloride	ug/L	2.5		< 2	< 2	< 2	< 2	
Tetrachloroethene	ug/L	2.5		< 1	< 1	< 1	< 1	
Toluene	ug/L	See Note 1		< 1	< 1	< 1	< 1	
Trichloroethene	ug/L	2.5		< 1	< 1	< 1	< 1	
Vinyl Chloride	ug/L	2.5		< 1	< 1	< 1	< 1	
Chloroform	ug/L	2.5		< 1	< 1	< 1	< 1	
o-Xylene	ug/L	See Note 1		< 2	< 1	< 2	< 2	
m,p-Xylene	ug/L	See Note 1		< 2	< 1	< 2	< 2	
Iron	mg/L	--						
Iron, dissolved	mg/L	--						
Total dissolved solids	mg/L	--						

Notes:

1. Instantaneous maximum for Total BTEX is 250 ug/L and is measured as the sum of benzene, ethylbenzene, toluene, and xylenes.

APPENDIX D
LABORATORY RESULTS
GROUNDWATER TREATMENT SYSTEM EFFLUENT SAMPLES
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

PARAMETER	UNIT	NPDES LIMIT (Instantaneous Maximum)	12/02/02	12/16/02	01/02/03	01/20/03	02/04/03	02/24/03
Hexavalent Chromium	mg/L	0.03	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	mg/L	0.0025	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0003	< 0.0002
Manganese	mg/L	5.00	0.94	0.88	0.93	1	1.25	0.9
Lead	mg/L	0.20	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isophorone	ug/L	2.5	< 10	< 10	< 10	< 10	< 10	< 10
bis(2-Ethylhexyl)phthalate	ug/L	--	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Tetrachloride	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/L	See Note 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/L	2.5	< 2	< 2	< 2	< 2	< 2	< 2
Tetrachloroethene	ug/L	2.5	< 1	< 1	2	< 1	< 1	< 1
Toluene	ug/L	See Note 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
o-Xylene	ug/L	See Note 1	< 2	< 2	< 2	< 2	< 2	< 2
m,p-Xylene	ug/L	See Note 1	< 2	< 2	< 2	< 2	< 2	< 2
Iron	mg/L	--	< 0.03	< 0.03				
Iron, dissolved	mg/L	--	< 0.03	< 0.03				
Total dissolved solids	mg/L	--	508	520				

Notes:

1. Instantaneous maximum for Total BTEX is 250 ug/L and is measured as the sum of benzene, ethylbenzene, toluene, and xylenes.

APPENDIX D
LABORATORY RESULTS
GROUNDWATER TREATMENT SYSTEM EFFLUENT SAMPLES
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

PARAMETER	UNIT	NPDES LIMIT (Instantaneous Maximum)	03/10/03	03/24/03	04/09/03	04/21/03	05/06/03	05/20/03
Hexavalent Chromium	mg/L	0.03	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	mg/L	0.0025	< 0.0002	< 0.0002	0.0002	< 0.0002	0.0005	0.0006
Manganese	mg/L	5.00	0.97	0.86	0.83	0.42	0.01	0.03
Lead	mg/L	0.20	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isophorone	ug/L	2.5	< 10	< 10	< 10	< 10	< 10	< 10
bis(2-Ethylhexyl)phthalate	ug/L	--	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Tetrachloride	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/L	See Note 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/L	2.5	< 2	< 2	< 2	< 2	< 2	< 2
Tetrachloroethene	ug/L	2.5	1	1	< 1	< 1	< 1	< 1
Toluene	ug/L	See Note 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
o-Xylene	ug/L	See Note 1	< 2	< 2	< 2	< 2	< 2	< 2
m,p-Xylene	ug/L	See Note 1	< 2	< 2	< 2	< 2	< 2	< 2
Iron	mg/L	--	0.05	< 0.03				
Iron, dissolved	mg/L	--	< 0.03	< 0.03				
Total dissolved solids	mg/L	--	542	528				

Notes:

1. Instantaneous maximum for Total BTEX is 250 ug/L and is measured as the sum of benzene, ethylbenzene, toluene, and xylenes.

APPENDIX D
LABORATORY RESULTS
GROUNDWATER TREATMENT SYSTEM EFFLUENT SAMPLES
CHRIN BROTHERS SANITARY LANDFILL

ORIGINAL

PARAMETER	UNIT	NPDES LIMIT (Instantaneous Maximum)	06/02/03	06/17/03	07/08/03	07/23/03	08/04/03	08/18/03
Hexavalent Chromium	mg/L	0.03	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	mg/L	0.0025	0.0003	0.0003	0.0003	0.00027	0.0003	< 0.0002
Manganese	mg/L	5.00	0.58	0.38	0.81	0.19	0.64	0.93
Lead	mg/L	0.20	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isophorone	ug/L	2.5	< 10	< 10	< 10	< 10	< 10	< 10
bis(2-Ethylhexyl)phthalate	ug/L	--	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Carbon Tetrachloride	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	ug/L	See Note 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene Chloride	ug/L	2.5	< 2	< 2	< 2	< 2	< 2	< 2
Tetrachloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	ug/L	See Note 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	ug/L	2.5	< 1	< 1	< 1	< 1	< 1	< 1
o-Xylene	ug/L	See Note 1	< 2	< 2	< 2	< 2	< 2	< 2
m,p-Xylene	ug/L	See Note 1	< 2	< 2	< 2	< 2	< 2	< 2
Iron	mg/L	--	0.03	< 0.03				
Iron, dissolved	mg/L	--	< 0.03	< 0.03				
Total dissolved solids	mg/L	--	624	672				

Notes:

1. Instantaneous maximum for Total BTEX is 250 ug/L and is measured as the sum of benzene, ethylbenzene, toluene, and xylenes.

APPENDIX D
LABORATORY RESULTS
GROUNDWATER TREATMENT SYSTEM EFFLUENT SAMPLES
CHRIN BROTHERS SANITARY LANDFILL

PARAMETER	UNIT	NPDES LIMIT (Instantaneous Maximum)	09/02/03
Hexavalent Chromium	mg/L	0.03	< 0.01
Mercury	mg/L	0.0025	< 0.0002
Manganese	mg/L	5.00	0.76
Lead	mg/L	0.20	< 0.005
Isophorone	ug/L	2.5	< 10
bis(2-Ethylhexyl)phthalate	ug/L	--	< 10
Benzene	ug/L	2.5	< 1
Carbon Tetrachloride	ug/L	2.5	< 1
Chlorobenzene	ug/L	2.5	< 1
1,4-Dichlorobenzene	ug/L	2.5	< 1
1,1-Dichloroethane	ug/L	2.5	< 1
1,1-Dichloroethene	ug/L	2.5	< 1
1,2-Dichloropropane	ug/L	2.5	< 1
Ethylbenzene	ug/L	See Note 1	< 1
Methylene Chloride	ug/L	2.5	< 2
Tetrachloroethene	ug/L	2.5	< 1
Toluene	ug/L	See Note 1	< 1
Trichloroethene	ug/L	2.5	< 1
Vinyl Chloride	ug/L	2.5	< 1
Chloroform	ug/L	2.5	< 1
o-Xylene	ug/L	See Note 1	3
m,p-Xylene	ug/L	See Note 1	< 2
Iron	mg/L	--	0.06
Iron, dissolved	mg/L	--	0.06
Total dissolved solids	mg/L	--	584

ORIGINAL

Notes:

1. Instantaneous maximum for Total BTEX is 250 ug/L and is measured as the sum of benzene, ethylbenzene, toluene, and xylenes.